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1993 69th annual UMMARY OF ILLINOIS FARM BUSINESS RECORDS



COMMERCIAL FARMS: Production / Costs / Income / Investments UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN / COLLEGE OF AGRICULTURE / COOPERATIVE EXTENSION SERVICE

CIRCULAR 1334

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SOURCE OF DATA

This report is based on data obtained from farm business records on 7,113 Illinois farms. It is the 69th annual summary of such records obtained from farmers cooperating with the University of Illinois Cooperative Extension Service, the Department of Agricultural Economics, and the Illinois Farm Business Farm Management (FBFM) Association.

At present, about one out of every five Illinois commercial farms with over 500 acres or total farm sales over \$100,000 is enrolled in this service, which grew steadily until 1982. Except for 1988, enrollment has declined slightly each year since 1982. One factor contributing to this decline has been the continued decline in the number of farms in the state. In 1994, 10 associations in 102 counties are being served by 66 full-time field staff and one half-time field staff specialist. Participation in this farm-business analysis program is voluntary; cooperating farmers pay a fee for the educational services.

The program's development since 1940 is shown below.

Year	Associa- tions	Counties partici- pating	Field staff employed	Farmers enrolled
1940	. 3	23	3	680
1950	. 8	59	15	2,760
1960	. 10	100	33	5,494
1970	. 10	102	42	6,553
1980	. 10	102	67	8,205
1990	. 10	102	70	7,192

Estimates for 1993 indicate that 90 percent of the 7,113 farms covered in this report are larger than 240 acres. For the most part, this 90 percent falls within the size of business that includes farms selling \$50,000 or more of farm products per year. In the 1992 Census of Agriculture, farms selling \$50,000 or more accounted for 91 percent of all sales from Illinois farms.

The segment of Illinois agriculture that includes farms with more than 180 acres is often referred to as "commercial farming." In 1992, there were 38,895 farms in Illinois with more than 180 acres and with sales of \$10,000 or more. The figures that follow, taken from the 1992 Census of Agriculture, show that these farms represented 75 percent of the 52,198 farms larger than 50 acres and that these farms produced more than 99 percent of the agricultural products sold from Illinois farms.

Acres per farm	Percent of all farms over 50 acres	Percent of census farms enrolled in FBFM	Number of farms enrolled in FBFM
180-499	24.4	9.2	1,856
500-999		18.2	2,320
1,000+		20.8	1,244

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Although most of the 1993 recordkeeping farms covered in this report are within the two smaller size groups, the figures show that they are not distributed proportionately among the groups. There were 5,977 farms identified by the Census with more than 1,000 acres in 1992. About a fifth of these farms (20.8 percent) were enrolled in the Illinois FBFM Association. Of the 12,750 farms in the group having from 500 to 999 acres, 18.2 percent also participated in the farm record program. Only about 5 percent of the farms enrolled had fewer than 160 acres. The average size of all farms enrolled in 1993 was 779 acres, compared with an average of 354 acres for all Illinois farms.

The data presented in this report is the total of operator and landlord income, expenses, and investments in the farm business. The group averages are identified by size of business, type of farm, and quality of soil found on the farm. Where segments of Illinois agriculture are identified by these criteria, the data from recordkeeping farms may be used with reasonable confidence, even though the recordkeeping farms as a group do not represent a cross section of all commercial farms in the state.

USES FOR THIS REPORT

The management of a modern commercial farm involves decision making in the application of technology, the choice of a proper combination of crop and livestock enterprises, and effective business administration of the farming operations. A basic analysis of a farm business involves a careful study of past performance to detect problems and strengths in the farming operation. Also involved is the process of planning and developing future operations to realize the full potential of the land, labor, and capital resources available and to improve the economic efficiency of the farm business.

The farm-business summaries contained in this report are used by individual farmers to analyze their business operations and to develop plans for future farming operations. This report summarizes the information so that specialists involved in agricultural extension, research, teaching, and agribusiness activities may use the data to help them perform their duties effectively. The definition of terms and accounting measures on the following pages will be of assistance in using the data.

The first part of the report (Tables 2, 3, 4, 5, 7, and 8) summarizes selected recent changes in farm income on Illinois farms. It also identifies economic forces and factors that contribute to these changing trends. The data presented in Tables 5 through 8 are the total of operator and landlord data. Some of the data used in the text are drawn from previous issues of this report.

The second section (Tables 9 to 18) presents data on livestock enterprises. The comprehensive and detailed information contained in this section is a valuable resource for anyone interested in livestock production. Because part of the feed grains and roughages produced on Illinois farms is marketed through livestock, the margins of income from livestock enterprises are important in interpreting the economic results of some farming operations.

The third section (Tables 19 to 27a) discusses costs, returns, financial summaries, investments, land use, and crop yields for different sizes and types of farms in northern, central, and southern Illinois. It is the total of operator and landlord data. It reports on the 25 percent of grain farms that received the highest return to management per dollar of cost and the 25 percent that received the lowest return. It also reports on two-man and three-man hog and beef farms. A two-man hog and beef farm uses from 21 to 27 months of labor; a three-man hog and beef farm, from 31 to 39 months.

DEFINITION OF TERMS AND ACCOUNTING METHODS

Soil-productivity rating

This rating is an average index representing the inherent productivity of all tillable land on the farm. Individual soil types on each farm are assigned an index ranging downward from 100. All ratings were revised in 1971 to reflect a basic level of management as outlined in Circular 1156 of the Illinois Cooperative Extension Service, *Soil Productivity in Illinois*. New land values were assigned in 1980. The adjustment of land values brings them to current market levels.

Hay equivalents, tons

To get the equivalents, we took the total of 1.0 multiplied by the pounds of hay, 0.45 multiplied by the pounds of hay silage, 0.33 multiplied by the pounds of corn silage, and 24 multiplied by the pasture days per feed unit (which are also multiplied by the total feed units per cow). This total is then divided by 2,000.

Sampling technique

Data from all records certified usable for analysis by field staff were aggregated by size (acres or number of cows), type of organization, value of the feed fed, and soil-productivity rating. Electronic data-processing was used to summarize the data.

Type of farm

Grain farms are farms where the value of the feed fed was less than 40 percent of the crop returns

and where the value of feed fed to dairy or poultry was not more than a sixth of the crop returns. Since 1973, farms with livestock have been essentially excluded from the sample of grain farms in northern and central Illinois in Table 19; since 1978, from the grain-farm sample in Table 20; and since 1982, from the grain-farm sample in Table 5.

Hog or beef farms are farms where the value of feed fed was more than 40 percent of the crop returns and where either the hog or beef-cattle enterprise received more than half of the value of feed fed.

Dairy farms are farms where the value of feed fed was more than 40 percent of the crop returns and where the dairy enterprise received more than one-third of the value of feed fed.

Cost items

The value of feed fed includes on-the-farm grains with the following average prices per bushel: corn, \$2.28; oats, \$1.54; and wheat, \$3.19. Commercial feeds were priced at actual cost, hay and silage at farm values, and pasture at 40 cents per animal unit per pasture day. A pasture day represents an intake of about 20 to 25 pounds of dry matter, defined as 16 pounds of total digestible nutrients (TDN) from

the pasture used.

Cash operating expenses include the annual cash outlays for these nondepreciable items: fertilizer, pesticides; seeds (including homegrown seeds); machinery repairs; machine hire and lease; fuel and oil; the farm share of electricity, telephone, and light vehicle expenses; building repairs; drying and storage; hired labor; livestock expenses; taxes; insurance; and miscellaneous expenses. Purchased feed, grain, and livestock are not included because they have been deducted from gross receipts in computing the value of farm production. The interest paid is not included because an interest charge is made on the total farm investment. But the total interest paid by the operator only on all debt-operating debt plus longer-term debt—is listed separately in Tables 19a to 27a under "Some costs and returns per tillable acre."

Machinery and equipment include depreciation; repairs; machine hire and lease; fuel and oil; and the farm share of electricity, telephone, and light vehicle

expenses.

Labor includes hired labor plus family and operator's labor, charged in 1993 at \$1,575 a month.

Interest on nonland capital covers the interest charged at 7 percent on the sum of one-half the average of the January 1 and December 31 inventory values of grain, plus the average of the January 1 and December 31 inventories of remaining capital investment in livestock, machinery and light vehicles, buildings, and soil fertility, plus one-half the cash-operating expense, exclusive of interest paid. In Tables 5, 7, and 8, this charge is combined with the land charge or net rent and labeled interest charge

on capital. The average cash interest paid per farm by all farm operators was \$14,422. Details on operator and landlord shares of expenses and income are published annually in research reports by the Department of Agricultural Economics.

Land charge or net rent is the bare land priced at current land values multiplied by 4.5 percent to reflect

net rents received by the landlord.

Total nonfeed costs include cash-operating expenses, adjustments for accrued expenses and farmproduced inputs, depreciation, and charges for unpaid labor and interest including land charge. Purchased

feeds and livestock are omitted.

The basic value of land (the current basis) is adjusted each year according to the February index of land prices in Illinois as reported by the United States Department of Agriculture (USDA). An additional adjustment was made to this index in 1984 to reflect the large drop in land values. The land value index for 1993, using a base earning value of 1979 = 100, was 70.

The capital account adjustment includes the gain or loss on capital items sold less any amortization

deduction.

Return items

Crop returns are the sum of grain, seed, and feed sales; the value of homegrown seed used; the value of all feed fed (except milk); government-deficiency and diverted-acre payments received and accrued; and the change in value for feed and grain inventories, less the value of feed and grain purchased. Government PIK (payment in kind) certificates purchased to redeem grain under government loan are included in the feed-and-grain purchase account.

The *total value of farm production* is the cash and accrued value of sales of products and services, less the cost of purchased feed, grain, and livestock, plus the change in inventory values for grain and livestock,

plus the value of farm products used.

Net farm income is the value of farm production, less total operating expenses and depreciation, plus gain or loss on machinery or buildings sold. Net farm income includes the return to the farm and family for unpaid labor, the interest on all invested capital,

and the returns to management.

Labor and management income per operator is total net farm income, less the value of family labor and the interest—including net rent—charged on all capital invested. This figure, as the residual return to all unpaid operators' labor and management efforts, is then divided by the months of unpaid operator labor and multiplied by 12 to reflect income for one operator on multiple-operator farms.

Capital and management earnings are net farm

income, less a charge for all unpaid labor.

Management return is the residual surplus after a

charge for unpaid labor and the interest or land charge on capital are deducted from net farm income.

The rate earned on investment is capital and management earnings—interest on all capital and land charge, plus management returns—per \$100 of the total farm average annual investment.

RECENT CHANGES IN INCOME ON ILLINOIS FARMS

Farm business trends in 1993

Illinois agriculture is based largely on crop production, especially corn and soybeans. In 1993, Illinois ranked first in the nation in the production of soybeans and of corn. The total value of corn and soybeans produced on Illinois farms was 21 percent of the total U.S. production for these crops. In 1992, the total value was 69 percent of the total value of production in Illinois from all crops and livestock and 91 percent of the value of production from all crops produced.

Crops. Year-to-year variations in net income are related to crop yields, grain prices, and acres in high cash-value crops. Corn yields in 1993 were lower than the record set in 1992, while soybean yields were equal to those of 1992. In 1993, the average corn yield for Illinois was 130 bushels per acre, 19 bushels below the 1992 record high yield. Recordkeeping farms averaged 132 bushels per acre in 1993, 21 bushels below the 1992 yield. Soybean yields were 43 bushels per acre in 1993, equal to the record set in 1992. Recordkeeping farms averaged 45 bushels per acre in 1993. Crop yields on the 7,113 record-keeping farms covered in this report averaged 2 to 5 percent above the average for all Illinois farms reported by the Illinois Crop Reporting Service.

This was the second year that crop sales have been divided between old and new crop sales. The prices received for old crop soybeans sold during the year averaged 32 to 35 cents per bushel above 1992 prices (Table 1). Corn prices received in 1993 averaged 14 cents less than those received in 1992. The price received for new crop corn averaged 29 to 34 cents higher than the year before, and the price received for new crop soybeans averaged 81 to 85 cents higher. Wheat sold for 38 to 47 cents less per bushel during the year. Crops under loan with the Commodity Credit Corporation (CCC) and forfeited at the end of the loan period are included as grain sales. The selling price would be the loan rate for that particular crop. Positive marketing margins on old-crop corn inventoried at the beginning of the year averaged about 14 cents. The average price received for old-crop soybeans was 46 cents above the beginning-of-year inventory price. The year-end, new-crop corn inventory price was 70 cents higher

Table 1. Average Prices Received and Paid by Farm Recordkeepers for Grain, Livestock, and Milk

	19	93	19	92	
	Northern Illinois	Southern Illinois	Northern Illinois	Southern Illinois	
Grain prices per bus	hel				
Purchased — corn Sold — corn,	\$2.26	\$2.33	\$2.28	\$2.39	
old crop corn,	2.18	2.19	2.32	2.33	
new crop soybeans,	2.36	2.30	2.02	2.01	
old crop soybeans,	6.00	5.93	5.65	5.61	
new crop wheat		6.12 2.87	5.42 3.20	5.31 3.25	
Livestock prices per		2.07	3.20	3.23	
Hogs, all weights		5.63	\$41.83		
weights	7	5.59	73	3.41	
weights, prices paid	8	5.85	8-	1.64	
Dairy cattle, all weights	59	9.53	60	0.45	
Sheep and wool, all weights	50	0.78	48	3.51	
Milk per cwt	12	2.53	13	3.07	

than it was the year before, and the year-end, newcrop soybean inventory price was \$1.25 higher.

Production of the major crops in 1993 was lower than in 1992. Compared to 1992, corn production was down 21 percent; soybean production was down 8 percent; oat production was down 42 percent and at record low levels; grain sorghum production was down 35 percent. Wheat production was up 9 percent due to more acres harvested. The average yield of 44 bushels per acre was 10 bushels below the previous year's average. Hay production was up 24 percent. The Illinois 1993 All Crop Production Index, using a base value of 1977 = 100, was 110, down from 128 in 1992. Acreages of corn harvested for grain was down 10 percent from 1992 to 1993, while soybean acreage was down 8 percent from 1992. Wheat acreage harvested for grain increased 35 percent. Farmers abandoned only 7 percent of the acres planted compared to 21 percent not harvested the vear before.

The 1993 growing season was a challenge for farmers in many areas of the state. The season began with below normal temperatures, muddy fields, and flooding. Major flooding, especially along rivers in the western part of the state, continued all summer. Corn planting began about 3 weeks later than usual. Farmers were able to catch up later in May and finished by the third week of June.

Crop progress continued to lag behind normal and was further affected by heavy rainfall and flooding during the summer. Hot, humid weather in late August helped crops develop and improve. Harvest began in late September but was slowed due to wet field conditions. Drier weather in late October and early November allowed the harvest to be completed by mid-November.

Soybean planting also got off to a slow start and progressed about 2 weeks later than usual due to wet fields. Only 60 percent of the crop was planted by June 1. Early June rains further delayed planting and hindered emergence. Some acreage had to be replanted. Warmer weather in July and adequate moisture in August resulted in good crop progress. Crop maturity was about a week behind schedule, with harvesting starting in early October. The harvest was fairly well completed by late October.

Livestock. A second major determinant in farm income is the price farmers receive for livestock and livestock products. In 1993, the average prices received by farm recordkeepers in the Illinois FBFM Association were 9 percent higher for hogs, 1 percent higher for fed cattle, and 4 percent lower for milk than they were in 1992 (Table 1). The prices paid for all weights of feeder cattle and feeder pigs averaged 5 percent above the 1992 price for feeder cattle and 25 percent above the 1992 price for feeder pigs. Lower returns due to higher prices paid for feeder cattle caused returns above feed and purchased animals for the feeder-cattle enterprise to decrease from \$25.40 per hundredweight produced to \$17.10 (Table 10). Higher hog prices increased returns above feed cost from \$16.45 per hundredweight produced to \$18.76. Returns above feed were below the 5-year average for 1989 through 1993 by \$0.59 per hundredweight produced. Lower milk prices and higher feed costs in 1993 made dairy returns above feed cost per cow decrease from \$1,398 in 1992 to \$1,178 in 1993 and 7 percent below the average for the 5year period from 1989 through 1993.

Labor and management income

The average operator's share of labor and management income for the 5-year period from 1989 through 1993 on all northern Illinois recordkeeping farms (located north of a line from Kankakee to Moline) was \$22,832. Operators on 1,600 grain and hog farms in central Illinois had 5-year average earnings of \$33,958 (Table 2). Central Illinois occupies the area between the Kankakee-Moline line in the north and the Mattoon-Alton line in the south. Smaller farms and variable soil quality in northern Illinois have generated smaller earnings from crops. The farms in northern Illinois typically average 5 to 10 percent lower crop yields than those in central Illinois.

Northern Illinois has a heavier concentration of livestock, which, except for hogs, had lower earnings in 1993 compared to 1992. The difference in earnings between central and northern Illinois increased by \$3,695 in a comparison of the 5-year averages for the periods from 1988 through 1992 and from 1989

Table 2. Operator's 5-Year Average Share of Labor and Management Income by Size and Type of Farm, 1989 Through 1993

	Nui	mber of acr	es per farm	1			
	Under 340	340 to 649	650+	All			
		Northern	Illinois				
Acres of tillable	242	480	962	590			
Labor and managem				000			
Grain	\$ 8,090 14,543 2,924 15,217 11,633	\$20,037 24,904 8,506 22,961 20,150	\$35,810 34,095 14,081 33,916	\$25,982 22,675 8,746 18,090 22,832			
	Central Illinois						
Acres of tillable land	275	507	981	724			
Labor and managem	ent earning	gs by type	of farm				
Grain ^b	\$14,156 7,190 17,556 13,182	\$27,754 20,997 28,241 25,584	\$49,385 38,019 44,066 44,574	\$37,828 29,421 30,851 33,958			
		Southern	Illinois				
Acres of tillable land	260	593	1,174	796			
Labor and managem							
Grain	\$ 9,491 14,199 28,655 16,226	\$16,198 31,251 35,113 23,851	\$33,885 d 33,885	\$26,356 27,166 32,013 27,047			

a Includes central Illinois.

b Highly productive soils with soil-productivity ratings from 86 to 100.

c Heavy-till and transition soils with soil-productivity ratings from 56 to 85.

d Data not available

through 1993. The northern Illinois area in general suffered from a wet growing season in 1993 more than central and southern Illinois, resulting in considerably lower yields in the northern area of the state. The recordkeeping farms in northern Illinois averaged 590 tillable acres per farm, compared with an average of 724 tillable acres on farms in central Illinois.

The figure for labor and management income varies considerably, depending on the location and type of farm. For the period from 1989 through 1993, operators in southern Illinois averaged \$27,047 for labor and management. This average increased by \$4,319, compared with the average for the 5-year period from 1988 through 1992. When the average earnings for the 5-year period from 1989 through 1993 are compared with the earnings from 1988 through 1992, earnings increased in all areas of the state. The average for the 5-year period from 1989 through 1993 increased 17 percent in northern Illinois, 19 percent in southern Illinois, and 26 percent in central Illinois, as compared to the 1988 through 1992 5-year period.

In 1993, the labor and management income for all areas of Illinois averaged \$34,725 per farm. This figure is \$3,240 below the 1992 state average. Even though returns were below those of the year before, they still averaged \$7,103 above the average for the 5-year period 1989 through 1993. Higher grain prices and good soybean yields helped stabilize earnings. The average soybean yield on all farms in the study was 45 bushels per acre, only 1 bushel per acre lower than the record yield established in 1992. The average corn yield of 132 bushels per acre equalled the last 5-year average. Gross crop returns of \$329 per tillable acre was actually \$12 per acre higher than the 1992 crop returns. Returns to cattle and dairy producers in 1993 were below 1992 returns, while returns to farrow-to-finish hog producers were slightly higher. Returns were unusually consistent across the central and southern Illinois areas and lower in northern

The income or salary of the farm operator whether tenant or part-owner-is the return for the labor and management provided by the operator. The level of income received is a measure of overall farming efficiency and includes compensation for the risk involved. The income includes the operator's gross sales and the net change in inventory. This income is reduced by operating expenses, depreciation, a charge for unpaid family labor, 7 percent interest on nonland investment, and a land-use charge equivalent to the average net rent received by landowners for crop-share leases from 1989 to 1992.

Whenever the income figures in Table 2 fall below the amounts required for living expenses and income and Social Security taxes, operators must use the charges deducted for interest on equity capital to pay these expenses. If we assume that \$35,000 is needed to pay living expenses and income and Social Security taxes, these figures for 5-year average, labor and management income indicate that to pay these expenses, the average farm operator's family uses between \$0 and \$25,000 of the return for equity capital, depending on the location and type of farm. Using part of the return to equity to pay family living expenses indicates that the farm operator is not receiving a competitive return for either his labor and management or his equity in the business. Offfarm income could be used to pay for some of the family living expenses.

Family living expenditures

Total cash living expenditures for a sample of 467 central Illinois, sole-proprietor, farm-operator families in 1993 averaged \$35,225 (Table 3). This figure is 3 percent higher than the 1992 average. Capital purchases for family living expenses of \$4,996 include the family's share of the auto, plus items that exceed \$250 and will last more than one year. Capital purchases for family living were 12 percent of the total cash outlay for all family living expenditures in 1993.

The average farmer in this sample paid \$14,121 in interest in 1993 on operating, machinery, and long-

Table 3. Average Sources and Uses of Funds Over a 4-Year Period and by Noncapital Living Expenses for Selected Illinois Farms

		All records, av	erage per farm		Family of 3	to 5, 1993 ^a
	1993	1992	1991	1990	High-third	Low-third
Number of farms	467	452	456	408	95	95
Tillable acres farmed. Acres owned Farm assets, January 1° Farm assets, December 31° Liabilities, January 1 Liabilities, December 31 Net farm income	125 \$432,768 450,325 220,410 223,353	755 132 \$426,539 450,722 218,402 229,076 55,759	731 131 \$381,588 383,283 198,764 202,708 30,596	719 120 \$358,394 384,363 183,161 203,168 50,825	946 150 \$532,186 546,960 300,027 298,039 68,608	631 96 \$332,511 354,997 178,983 190,263 48,950
Source of dollars Net nonfarm income Money borrowed Farm receipts Total sources	135,712 220,045	\$ 12,166 144,676 193,259 \$350,101	\$ 12,226 118,446 177,832 \$308,504	\$ 12,624 116,122 180,737 \$309,483	\$ 11,533 192,299 283,806 \$487,638	\$ 11,868 105,162 197,887 \$314,917
Use of dollars Interest paid. Cash operating expenses Capital farm purchases. Payments on principal Income and Social Security taxes. Net new savings and investment. Total living expenses. Living — capital purchases	\$ 14,121 139,570 26,946 135,090 10,504 2,427 \$ 35,225	\$ 16,006 125,392 19,867 134,566 10,172 5,017 \$ 34,336 4,745	\$ 15,550 111,037 22,829 113,510 11,326 -2,646 \$ 32,480 4,418	\$ 15,070 112,943 27,834 98,101 9,444 9,710 \$ 32,090 4,291	\$ 19,708 178,062 30,158 197,127 12,450 -6,845 \$ 50,704 6,274	\$ 11,691 129,074 29,996 95,941 7,549 10,738 \$ 25,028 4,900
Total uses		\$350,101	\$308,504	\$309,483	\$487,638	\$314,917

Records were sorted into thirds according to total noncapital living expenses.

Modified-cost basis, except the land value, which was held at the same current value for January 1 and December 31.

term real estate debts. This interest expense was 9 percent of total operating expenses (including interest paid) and 6 percent of total farm receipts, or \$19 per tillable acre farmed in 1993. The average amount of interest paid in 1993 was \$1,885 less than the amount paid in 1992. This is the first time in five years that the amount of interest paid was less than the amount paid in the previous year.

The most significant financial facts about 1993 are as follows:

- · Net farm income, plus net nonfarm income, was \$18,128 more than the sum of family living capital purchases, total living expenses, and payments for income and Social Security taxes. This was the second largest this margin has been since the 1970s;
- Liabilities of \$223,353 as of December 31, 1993, were 50 cents for each dollar of farm-only assets, including land at current value and machinery at depreciated value. The 50 cents was the lowest liability for each dollar of any year in the last decade;
- Capital purchases of \$26,946, averaging \$36 per tillable acre, were the second highest for any year during the last decade. That compared to \$31 per tillable acre in 1991 and \$26 in 1992;
- The amount of money borrowed exceeded principal payments for the 5th year in a row, after 3 years in which principal payments exceeded money bor-
- The amount of noncapital living expenses per tillable acre farmed was \$47, which was the highest amount in recent years;
- Income and Social Security taxes paid increased by

\$332, and the total amount of taxes paid, \$10,504, was the second largest amount since this study began:

 Medical expenses averaged over \$5,000 for the second year in a row. Since 1990, medical expenses have increased \$976 or 22 percent.

The 1993 records from three- to five-member families were sorted into high one-third and low onethird groups according to the family's total living expenses (Table 3). The total cash living expenses for the high-third group averaged \$50,704, compared with \$25,028 for the low-third group. The high-third group farmed 315 more acres than the other group and owned 16 percent of the land farmed; the lowthird group owned 15 percent of the land farmed. The results indicate that the low-third group had more nonfarm taxable income. The high-third group had 57 percent more outstanding debt and a higher net farm income. When net farm income is added to net nonfarm income, and total family living expenses-including capital purchases for family living-and payments for income and Social Security tax are subtracted, the low one-third group had \$12,628 more dollars remaining than the high onethird group.

Living expenses included cash expenditures for food, operating expenses, clothing, personal items, recreation, entertainment, education, transportation, life insurance, contributions, and medical expenses. The sample of 467 farms contained 21 more tillable acres than the average of all the recordkeeping farms in the state. Management was also considered slightly above average. In view of these factors, average total living expenses for all recordkeeping families (excluding capital purchases) are estimated to be between \$28,000 and \$30,000 or 15 to 20 percent below the average total living expenses of these 467 central Illinois farms. When the \$13,122 net nonfarm income for 1993 is used for living expenses, the remaining \$27,099 must be generated from the farm business to pay the \$40,221 used for total living expenses including family living capital purchases. The figure, \$27,099, amounts to \$36 per tillable acre farmed.

Income changes on Illinois farms

The average operator's net farm income for all farms in 1993 was \$55,895; it was \$54,097 in 1992 (Table 4). Operator net farm incomes decrease steadily as a higher percent of gross farm returns is used to pay interest. On the average, when more than 25 to 30 percent of gross farm returns is used to pay interest, the operator's net farm income is usually negative. Due to the higher incomes in 1993, a net farm income did not become negative until 30 to 35 percent of the gross farm returns were used to pay interest. Interest paid as a part of gross farm returns for all operators averaged 6.9 percent in 1993; 7.9 in 1992; 9.9 in 1991; 8.8 in 1990; and 8.9 in 1989.

Comparative costs and returns between years and among major types of farming operations in northern and central, and in southern Illinois are reported in Tables 5, 7, and 8. The separation of farms into northern and central, and southern Illinois is based on soil-type regions that divide the state approximately on an east-west line from Mattoon to Alton. The sample consisted of grain, hog, beef, and dairy farms having between 340 and 799 acres or an average of 567 acres. Labor available on farms of this size averaged 13 months on grain farms, 23 months on hog farms, 18 months on beef farms, and 26 months on dairy farms. The data in the tables are presented as if the farms were all owner operated. For leased farms, the landlord and tenant shares of the business were combined. Depending on the location, between 55 and 75 percent of the land in Illinois is tenant operated, primarily under crop-share, some cash-rent, and a small number of livestock-share leases.

Size of farm, type of farm, quality of soil, and managerial inputs have been held reasonably constant by the sampling procedure used in selecting farms within each category. Variations among figures for 1992, 1993, and the 5-year average are due to changes in farm prices and to costs, weather, and internal farming adjustments. The data in Tables 5, 7, and 8 are particularly helpful for comparing types of farming and for evaluating changes in farm costs and returns for a particular size and kind of farm. The data do not reflect overall farming adjustments due

to the enlargement of farms or to major changes in the use of resources.

The figure for net farm income comprises returns to the farm family for all unpaid labor, interest on all invested capital, and the managerial inputs used in farming. Changes in the value of farm inventories and that of consumed farm products are included as income. Net farm income is calculated by accounting methods comparable to the accrual method used in calculating taxable farm income for the federal income tax. Two important differences in the accrual method of income tax accounting should be noted: the provision for capital gains on livestock sales, which was in effect until 1987, and the inclusion of interest paid as a farm expense. The operator's share of net farm income, which is listed below total net farm income in many tables, does have the interest expense deducted from it.

The figures for net farm income are the amount available from the farm business for living costs, income and Social Security taxes, debts, new investments, and savings. Interest must also be paid from total net farm income, but not the operator's share because it has already been subtracted. New capital investments for the farm business have been included with total cash expenditures. Although the cash balance reflects the cash position of the farm business, the figure is influenced by purchases and sales of feed and livestock and by changes in liabilities and borrowed funds.

The investment per farm is established as an average of the investments in farm inventory on January 1 and December 31. Physical quantities of grain and livestock are valued at farm market prices. Machinery, buildings, and soil fertility are valued at the remaining capital cost: original cost less depreciation as allowed for income tax deductions to date. Land is priced at current values, with the same value used for the beginning- and end-of-year land inventories. A base land value is established for each farm on the basis of a soil-productivity rating adjusted to a current value each year by using the February index of land prices in Illinois. The procedure used for adjusting the land value is described in the definitions of soil-productivity rating and of the value of land (the current basis) on pages 2 and 3. The annual change in land values represents an adjustment in accounting to bring land values to current market levels. The land adjustment index for 1993 did not change from the index used in 1992.

Northern and central Illinois farms

Grain farms. The net farm income for northern and central Illinois grain farms having 340 to 799 acres and no livestock averaged \$100,201 in 1993, with the operator's and landlord's shares combined (Table 5). This income was \$2,546 above that of 1992 and \$12,613 above the 5-year average income

Table 4. Percent of Illinois Farms and Operator Net Farm Income by Interest Paid as a Percent of Gross Farm Returns, 1989 Through 1993

		Interest paid as a percent of gross farm returns										
	Under 10	10-14.9	15-19.9	20-24.9	25-29.9	30-34.9	35+	All				
Percent of farms												
1989	65	15	9	5	3	1	2	100				
1990	65	16	9	5	3	1	1	100				
1991	59	16	10	6	4	2	3	100				
1992	69	16	7	4	2	1	1	100				
1993	74	14	6	3	1	1	1	100				
Net farm income												
1989	\$51,632	\$42,415	\$31,688	\$23,894	\$14,677	\$ 61	\$- 2,990	\$44,652				
1990	56,786	41,803	34,008	27,946	19,210	5,407	-13,768	48,211				
1991	36,437	21,663	12,110	3,850	95	-6,907	-30,034	25,502				
1992	60,758	50,713	35,264	28,201	11,267	7,738	-19,068	54,097				
1993	63,707	43,911	27,908	21,346	9,856	-15,737	-22,561	55,895				

from 1989 through 1993. This income was the highest of any during the last decade. The next highest was \$97,655 in 1992. The value of farm production was also the highest of any of the last 10 years, increasing by \$8,748 compared to 1992. The value of farm production, which averaged over \$200,000 for the first time, increased due to a \$14,136 increase in inventory value. Accounts receivable, which is mainly ASCS deficiency payments due, dropped by \$12,494. Net cash operating income increased by \$32,780. Total operating expenses increased by \$1,752. Depreciation expense increased from \$10,908 in 1992 to \$15,358 in 1993. This was a 41 percent increase. Depreciation increased due to more capital purchases and a change in the tax law that increased the amount that can be "expensed" or depreciated in the year of purchase. This was the highest amount of depreciation expense on these farms since 1986.

The main factor causing incomes on northern and central Illinois grain farms to increase as compared to the year before was higher grain prices and good soybean yields. The average soybean yield on these farms in 1993 was 47 bushels per acre, the same as the previous year's yield. The average corn yield was 140 bushels per acre, compared to 162 the year before. Corn was inventoried 70 cents higher at the end of 1993 compared to the beginning, while soybeans were inventoried \$1.25 higher. As a result of the good yields and higher grain prices, the value of grain inventories on these farms increased \$14,136 at the end of the year as compared to the beginning. The decrease in accounts receivable was due to a decrease in accrued deficiency payments from the government farm program. Most farmers continue to participate in the government farm program, setting aside 10 percent of their corn acreage base.

The average price received in 1993 for corn and soybeans was slightly lower than that of the previous year. However, the average price received for old crop corn and soybeans was slightly higher than the inventory price at the beginning of the year. This resulted in a positive marketing margin for corn and

soybeans. Capital purchases of \$18,176 in 1993 were \$4,917 more than in 1992 and \$3,216 above the 1989 through 1993 average. They were at the highest level for this group of farms for any year during the last decade.

While accrual net farm incomes increased \$2,546, net cash incomes increased \$21,806. A major reason for the difference is due to a large accounts receivable decrease, which affects only the accrual income. Management returns were \$18,083, \$3,103 less than 1992 but \$8,441 higher than the 1989 through 1993 5-year average and the second highest for any year during the last decade. The last 5-year average is \$9,642. The rate earned on investment was 6.10 percent, compared with 6.10 percent in 1992 and the last 5-year average of 5.65 percent. This rate earned on investment for grain farms was the third lowest rate earned in 1993 for any type of farm.

A study of the cost to grow corn and soybeans on central Illinois farms is summarized in Table 6. These farms had a soil-productivity index ranging from 86 to 100. The farms used 93 percent of their tillable land to grow corn and soybeans, with 47.3 percent of the acres in corn and 46.1 percent in soybeans. The table compares 1993 costs per acre with the 1992 costs. In 1993, the total cost per acre averaged \$366 for corn and \$300 for soybeans. From 1992 to 1993, it increased 6 percent for corn and 9 percent for soybeans.

Nonland costs of \$1.61 per bushel for corn and \$3.61 for soybeans in 1993 are the most relevant costs for continuing production in the short run, especially where land is free of debt. Total costs to produce a bushel of corn and soybeans increased from 1992 to 1993 due to higher costs per acre. Lower corn yields also increased costs per bushel. Total costs per bushel increased 47 cents for corn and 49 cents for soybeans. If the 1993 yields had been 152 for corn and 48 for soybeans or the same as the average for the period from 1990 through 1993, the total cost per bushel would have been \$2.41

Table 5. Averages for Selected Total Farm Items on 340- to 799-Acre Northern and Central Illinois Grain, Hog, and Beef Farms

	Grain farms			Hog farms				Beef farms									
	1993		1992	1989- ave	1993 rage		1993		1992	19	989-1993 average		1993		1992	19	989-1993 average
Number of farms	703		744		782		177		177		200		42		46		47
Total acres	581		578		575		547		557		552		509		534		524
Soil-productivity rating	86		86		86		80		81		81		78		78		78
Cash operating income\$ Less purchased	198,811	\$	167,197	\$ 172	2,424	\$	353,388	\$	337,375	\$	338,470	\$	513,935	\$	505,538	\$	530,414
feed and livestock	374		540	1	,399	_	109,005		112,758		104,738	_	327,480	_	335,305		336,728
Net cash operating income\$ Accounts receivable	198,437	\$	165,657	\$ 171	,025	\$	244,383	\$	224,617	\$	233,732	\$	186,455	\$	170,233	\$	193,686
change	-12,494 14,136 270		8,342 17,363 239		,409 9,983 264	_	-10,660 17,364 572	_	7,271 14,452 528		-850 10,856 582		-13,328 19,397 988		9,044 23,283 955		-1,613 6,547 972
Value of farm production \$ Total cash operating	200,349	\$	191,601	\$ 179	,863	\$	251,659	\$	246,868	\$	244,320	\$	193,512	\$	203,515	\$	199,592
expenses	87,781		81,306	80),569		122,643		120,251		116,650		101,972		97,551		99,812
change	-2,991 15,358		1,732 10,908		-53 ,759	_	-1,677 25,086	_	1,537 23,303		-560 24,502	_	-4,357 23,413		309 17,437	_	-107 22,026
Net farm income \$	100,201	\$	97,655	\$ 87	,588	\$	105,607	\$	101,777	\$	103,728	\$	72,484	\$	88,218	\$	77,861
(Operator's share) ^a Unpaid labor charge Returns to capital	(39,863) 18,430		(42,895) 17,796		,553) ,763		(45,506) 21,899		(47,112) 20,703		(48,068) 20,186		(31,917) 20,288		(40,560) 18,848		(29,334) 18,376
and management Interest charge on	81,771		79,859		,825		83,708		81,074		83,542		52,196		69,370		59,485
capital	63,688		58,673		,183	Ś	65,282	-	63,858 17,216	•	69,021 14.521	-	66,405 - 14,209	_	65,368		73,406 - 13,921
Management returns \$	18,083 200.534		21,186 167,536		, 642	4	18,426 354,708	ð	338,316	9	339,687	3	514,825	\$	4,002 507,000	þ	531,334
Total cash income ^b Total cash			·														,
expenditures ^b	94,451	•	94,891		,683	\$	259,012 95,696	\$	256,299 82,017	_	248,425 91,262	\$	458,195 56,630	dr.	449,147 57.853	-	459,633 71,701
Cash balance\$ Capital purchases	18,176	Ф	13,259		,293	Ф	27,558	Ф	23,448	Ф	27,207	•	28,778	Ф	16,341	Ф	23,132
Farm Investment Livestock inventory \$ Grain inventory	187 122,262		172 107,182	\$ 107	187 ,128	\$	96,117 101,285	\$	103,241 98,576	\$	100,529 97,313	\$	226,981 92,498	\$	224,131 92,376	\$	224,828 92,277
cost in: Machinery and auto Buildings and fence Soil fertility	27,184 15,716 70		25,354 14,724 60		,452 ,113 62		40,063 42,333 63		42,656 48,707 63		37,289 48,955 107		34,437 35,544 50		35,297 39,537 0		34,867 44,188 536
Value of land (current basis) <u>\$1</u>	,175,009	\$1,1	162,640	\$1,107	,920	\$	985,014	\$	998,551	\$	958,838	\$	855,482	\$	887,264	\$	844,834
Total farm investment \$1	,340,428	\$1,3	310,132	\$1,253	,862	\$1	,264,875	\$1	,291,794	\$1	,243,031	\$1	,244,992	\$1	,278,605	\$1	,241,530
Rate earned on investment, percent	6.10		6.10		5.65		6.62		6.28		6.72		4.19		5.43		4.79

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only. b Includes sales or purchases of capital items.

for corn and \$6.25 for soybeans. These costs do not include a charge for management.

The cost of fertility for soybeans was allocated on the basis of phosphorus, potassium, and lime removals, with the residual allocated to corn. The total unpaid labor charge was based on the labor available. The nonland interest rate was 7 percent of one-half the average of the beginning- and end-ofyear inventory values for the crops on hand, plus one-half the cash-operating expenses (excluding interest paid), plus the depreciated value of machinery and buildings. The adjusted net rent was the average net rent received by crop-share landlords as reported on recordkeeping farms for the period from 1989 through 1993.

Hog farms. The net farm income in 1993 for northern and central Illinois hog farms having 340 to 799 acres averaged \$105,607, with the operator's and landlord's shares combined (Table 5). Net incomes were \$3,830 higher than net incomes in 1992, and \$1,879 higher than the average for the 5-year period from 1989 through 1993. The net farm incomes for this group in 1993 were the third highest for any year out of the last 10 years. Earnings for this type of farm were record-high in 1990. Incomes for this type of farm were the second highest for any type of farm in 1993 and for the average of 1989 through 1993. Higher grain prices resulted in a \$17,364 inventory increase in 1993, compared to a \$14,452 increase in 1992. Net cash operating income increased \$19,766. The value of farm production increased 2 percent, and cash operating expenses other than feed also increased 2 percent.

Management returns were \$18,426, an increase of \$1,210 from 1992 returns and \$3,905 above the 5-year average from 1989 through 1993. Capital purchases increased by \$4,110, compared with 1992's purchases, and were \$351 above the 1989 through 1993 average. Cash livestock sales decreased by \$5,084 compared with 1992 figures. The average number of litters farrowed for this group was 242, the second

highest ever.

Higher earnings caused the rate earned on investment to increase to 6.62 percent in 1993, compared with 6.28 percent in 1992. This was the highest for any type of farm in northern and central Illinois.

Table 6. Average Cost per Tillable Acre to Grow Corn and Soybeans on Central Illinois Grain Farms with No Livestock

C	orn	Soyl	oeans
1993	1992	1993	1992
Number of farms 588	615	588	615
Acres grown per farm 395	403	385	377
Yield per acre, bu 151	176	49	49
Variable nonland costs Soil fertility \$ 51 Pesticides 26 Seed 24 Drying and storage 14 Machinery repairs, fuel,	\$ 52	\$ 17	\$ 17
	24	28	25
	24	14	13
	14	6	6
and hire	26	24	<u>22</u>
	\$140	\$ 89	\$ 83
Other nonland costs \$ 31 Labor \$ 31 Buildings and storage 7 Machinery depreciation 26 Nonland interest 21 Overhead 14 Total, other costs \$ 99 Total, nonland costs \$ 243	\$ 30	\$ 29	\$ 28
	6	4	3
	20	22	16
	18	19	16
	13	14	13
	\$ 87	\$ 88	\$ 76
	\$227	\$177	\$159
Land costs Taxes \$ 20 Adjusted net rent 103 Total, land costs \$123 Total, all costs \$366	\$ 20	\$ 20	\$ 20
	<u>97</u>	103	<u>97</u>
	\$117	\$123	\$117
	\$344	\$300	\$276
Nonland cost per bu \$ 1.61 Total, all costs per bu \$ 2.42	\$ 1.29	\$ 3.61	\$ 3.24
	\$ 1.95	\$ 6.12	\$ 5.63
Average yield, past 4 years	150	48	48
	\$ 2.29	\$ 6.25	\$ 5.75

The 5-year average rate was 6.72 percent, also the highest rate on any type of farm in northern and central Illinois.

Beef farms. The net farm income for northern and central Illinois beef farms having 340 to 799 acres averaged \$72,484 in 1993, with the operator's and landlord's shares combined (Table 5). This figure was \$15,734 lower than the 1992 figure and \$5,377 lower than the average from 1989 through 1993.

Higher prices paid for feeder cattle and lower corn yields contributed to the lower earnings. The average price paid for feeder cattle increased 5 percent in 1993 compared with 1992. The average price received for fed cattle increased 3 percent. Compared with 1992, the value of farm production decreased by \$10,003, or 5 percent. It was \$6,080 below the 5-year average for 1989 through 1993. These farms produced 2,363 hundredweight of beef per farm, or the weight-gain equivalents of 497 head, each gaining

475 pounds.

Management returns of a negative \$14,209 in 1993 for these farms were \$18,211 below 1992 returns and \$288 below the 5-year average from 1989 through 1993, which was a negative \$13,921. The 1992 management returns were the third highest of any year in the last 10 years. The only years that management returns have been positive in the last 10 years were in 1987, 1990, and 1992. Capital purchases were \$28,778 in 1993 compared to \$16,341 in 1992 and \$23,132 for the 1989 through 1993 average. Capital purchases were the highest in 1993 of any in the last 10 years. Cash operating expenses, excluding purchases of feed and livestock, increased 5 percent. The net cash balance for these farms was \$56,630, or \$1,223 less than in 1992 and \$15,071 below the average for 1989 through 1993. The net cash balance for these farms in 1993 was the lowest for any year out of the last 10 years.

Cost and returns to produce beef from 1990 through 1993, based on a detailed breakdown of individual costs from a selected sample of beef farms, are shown in Table 14. Total costs exceeded total returns in 1993. An analysis of feeder-cattle enterprises is discussed in detail under the livestock section.

The average rate earned on investment decreased from 5.43 percent in 1992 to 4.19 percent in 1993. The 5-year average rate earned on investment from 1989 through 1993 was 4.79 percent. The 1989 through 1993 average rate earned on investment is the lowest for any type of farm. The average total farm investment was \$1,244,992. The average investment in cattle of \$226,981 represents the second highest of any year during the last 10 years.

Farms on which beef cattle are raised or fed continue to compete for resources in Illinois, where nonmarketable resources, such as roughage, labor, and buildings, or very high levels of management are available. Higher feeder cattle prices along with slightly higher feed costs helped decrease returns in 1993 to

feeder-cattle enterprises. In recent years, this type of farm has survived primarily where there are large amounts of debt-free capital that have been combined

with very high levels of management.

Dairy farms. The net farm income for northern and central Illinois dairy farms having 340 to 799 acres averaged \$64,156 in 1993, with the operator's and landlord's shares combined (Table 7). This figure was \$20,705 below the 1992 figure and \$18,238 below the 5-year average from 1989 through 1993. The 1993 income was the lowest of any of the last 7 years. The average number of cows on these farms was 69, 5 below the average for 1992.

Lower milk prices, lower crop yields which decreased the value of inventories, and reduced accounts receivable for ASCS deficiency payments resulted in a lower value of farm production and net farm income. The value of farm production was \$204,480, 7 percent below the average for the 5-year period from 1989 through 1993. Cash operating expenses increased 6 percent in 1993 compared to 1992. (A detailed breakdown of the cost of producing milk can be found in Table 16.) Management returns of a negative \$15,158 were \$23,798 below the 1992 figure and \$17.347 below the average for the 5-year period from 1989 through 1993. For the last 10 years, management returns were positive 4 years. Capital purchases decreased to \$19,928 compared to \$26,432 and the 1989 through 1993 average of \$23,891.

The 1993 rate earned on investment for these farms was 3.94 percent; the 1992 rate was 6.16 percent. The 5-year average rate earned on investment was 6.28 percent. The 1993 rate earned on investment was the lowest for any type of farm in Illinois. The average price received for milk in 1993 was 4 percent lower than the average price received in 1992. At the beginning of 1993, milk prices were similar to prices received in 1992 but below 1992 prices during the summer and fall months and higher the last two months. Milk prices received for the first half of 1994 are above those of the first half of 1993. Dairy producers should face more favorable feed costs in 1994 as the growing conditions are better than the wet conditions that were experienced in 1993.

The price received for beef from all cull animals and vealers sold from the dairy herd can be an important factor in determining total returns. When beef prices were high, those sales accounted for as much as 20 percent of the total income from the dairy enterprise. But when beef prices are low, this source of income is only 10 to 12 percent of the total. In 1993, the returns from beef accounted for 15 percent of the total returns to the dairy herd, in comparison with 16 percent in 1992.

Southern Illinois farms

Grain farms. The net farm income for southern Illinois grain farms having 340 to 799 acres averaged

Table 7. Averages for Selected Total Farm Items on 340to 799-Acre Northern Illinois Dairy Farms

	1993		1992	19	989-1993 average
Number of farms	59		62		59
Total acres	479 70		470 71		472 71
Cash operating income\$ Less purchased feed and livestock	266,637 55,862	\$	256,764 53,320	\$	259,032 52,054
Net cash operating	33,002	-	30,020	-	32,034
income\$ Accounts receivable	210,775	\$	203,444	\$	206,978
change Inventory change Farm products used	-7,690 3,808 2,587		5,552 9,153 2,209		-914 6,364 2,433
Value of farm production\$	204.480	\$	220.358	\$	214,861
Total cash operating	204,400	"	220,000	"	214,001
expenses	120,169 -1.099		113,643 174		110,405 -453
Prepaid-unpaid change Annual depreciation	26,254		21,680		22,515
Net farm income\$	64,156	\$	84,861	\$	82,394
(Operator's share) ^a Unpaid labor charge Returns to capital	(28,590) 25,761		(44,927) 26,661		(45,603) 25,266
and management Interest charge on capital	38,395 53,553		58,200 49,560	_	57,128 54,939
Management returns\$	-15,158	\$	8,640	\$	2,189
Total cash income ^b Total cash expenditures ^b	267,586 194,169	_	257,207 191,863	_	260,080 184,778
Cash balance\$ Capital purchases	73,417 19,928	\$	65,344 26,432	\$	75,302 23,891
Farm Investment Livestock inventory\$ Grain inventory	123,227 74,236	\$	111,234 66,888	\$	113,859 69,510
Remaining capital cost in: Machinery and auto	47,291		45.006		40.943
Buildings and fence Soil fertility	53,504		49,102		53,364
Value of land (current					
basis)	675,616	_	673,092	_	631,941
Total farm investment\$	973,966	\$	945,401	\$	910,031
Rate earned on investment, percent	3.94		6.16		6.28

^a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

\$77,345 in 1993, with the landlord's and operator's shares combined (Table 8). This income is \$3,470 above net farm income in 1992 and \$13,912 above the average from 1989 through 1993. The 1993 income is the highest it has been for any of the last 10 years. Higher grain prices more than offset the drop in yields, resulting in increased cash operating income and a \$12,333 increase in inventories. These increases caused the value of farm production to increase \$16,812, or 11 percent in 1993 compared to 1992. Corn yields were 19 bushels per acre lower and soybean yields were 3 bushels per acre lower in 1993 compared to 1992. Farm operating expenses increased 12 percent, while depreciation expenses increased \$7,231, or 73 percent. Depreciation was at its highest level since 1985. The cash balance of \$64,499 was \$9,176 above the 1992 balance and the

b Includes sales or purchases of capital items.

Table 8. Averages for Selected Total Farm Items on 340- to 799-Acre Southern Illinois Grain, Hog, and Dairy Farms

	(Grain farms		Hog farms					
	1993	1992	1989-1993 average	1993	1992	1989-1993 average	1993	1992	1989-1993 average
Number of farms	201	231	233	50	59	72	31	28	35
Total acres	597	585	586	516	567	548	514	499	514
rating	59	59	60	58	59	59	59	60	59
Cash operating income	\$171,162	\$141,545	\$146,305	\$277,413	\$274,925	\$267,859	\$308,583	\$319,735	\$316,471
Less purchased feed and livestock	12,355	8,795	10,269	94,067	92,458	87,314	62,859	74,120	70,455
Net cash operating income	\$158,807	\$132,750	\$136,036	\$183,346	\$182,467	\$180,545	\$245,724	\$245,615	\$246,016
change	-2,251 12,333 821	1,517 17,828 803	-161 7,599 891	-1,310 14,830 1,177	747 17,624 1,044	-69 8,922 996	-1,083 10,488 1,513	398 22,042 2,694	-113 11,982 2,440
Value of farm production	\$169,710	\$152,898	\$144,365	\$198,043	\$201,882	\$190,394	\$256,642	\$270,749	\$260,325
expenses Prepaid-unpaid	77,026	68,927	68,956	96,485	98,365	93,484	120,546	125,612	121,647
change	-1,821	167	-149	-1,329	1,271	-19	161	-3,798	-645
Annual depreciation	17,160	9,929	12,125	22,904	17,388	18,741	29,813	24,432	25,725
Net farm income	\$ 77,345	\$ 73,875	\$ 63,433	\$ 79,983	\$ 84,858	\$ 78,188	\$106,122	\$124,503	\$113,598
(Operator's share) ^a Unpaid labor charge Returns to capital	(36,424) 19,620	(38,531) 18,325	(27,284) 17,584	(48,937) 24,476	(42,903) 19,640	(41,760) 19,991	(69,927) 28,147	(89,481) 26,384	(78,527) 25,948
and management	57,725	55,550	45,849	55,507	65,218	58,197	77,975	98,119	87,650
capital	40,773	36,389	39,265	41,126	42,938	45,165	50,006	48,129	54,204
Management returns	\$ 16,952	\$ 19,161	\$ 6,584	\$ 14,381	\$ 22,280	\$ 13,032	\$ 27,969	\$ 49,990	\$ 33,446
Total cash income ^b Total cash	172,345	143,349	147,649	278,454	275,333	269,203	309,575	321,354	317,210
expenditures ^b	107,846	88,026	93,073	219,810	205,279	201,980	214,341	229,041	220,880
Cash balance Capital purchases	\$ 64,499 19,193	\$ 55,323 11,007	\$ 54,576 14,612	\$ 58,644 29,932	\$ 70,054 15,173	\$ 67,223 21,762	\$ 95,234 31,777	\$ 92,313 31,061	\$ 96,330 30,364
Farm Investment Livestock inventory Grain inventory	\$ 14,630 91,779	\$ 13,640 73,739	\$ 13,506 72,849	\$ 81,350 77,084	\$ 78,702 73,844	\$ 78,368 69,802	\$144,139 84,799	\$154,146 68,911	\$144,502 71,080
Remaining capital cost in: Machinery and auto Buildings and fence Soil fertility	31,505 9,547 42	25,449 8,438 55	25,233 8,629 44	30,797 30,622 46	30,664 30,734 62	29,050 29,656 67	54,705 27,534	59,299 28,489	54,713 30,682
Value of land (current basis)	682,845	662,908	647,203	550,185	638,043	578,335	585,876	568,599	565,003
Total farm investment	\$830,348	\$784,229	\$767,464	\$770,084	\$852,049	\$785,278	\$897,053	\$879,444	\$865,980
Rate earned on investment, percent	6.95	7.08	5.97	7.21	7.65	7.41	8.69	11.16	10.12

a Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.
b Includes sales or purchases of capital items.

highest since 1983, when studies for this type of farm began.

Capital purchases were \$19,193 in 1993, \$8,186 more than 1992 and \$4,581 above the 5-year average for 1989 through 1993. Capital purchases were the highest for any year during the last decade. Capital purchases in 1993 equaled \$35 per tillable acre compared to \$21 per tillable acre in 1992.

Management returns of \$16,952 for these farms were the second highest of any year during the last 10 years. The highest was \$19,161 in 1992. The 5year average from 1989 through 1993 for management returns was \$6,584. The rate earned on investment decreased in 1993 to 6.95 percent; in 1992, this rate was 7.08 percent. This was the lowest rate earned on investment for any type of farm in southern Illinois. The average rate earned on investment for the period from 1989 through 1993 was 5.97 percent, below the average rates for any other type of farm in southern Illinois.

Hog farms. The net farm income for southern Illinois hog farms having 340 to 799 acres averaged \$79,983 in 1993, with the landlord's and operator's shares combined (Table 8). This income was \$4,875

lower than net farm income in 1992 and \$1,795 higher than the average net farm income of \$78,188 earned from 1989 through 1993. Slightly higher hog prices and higher grain prices were the main reasons for the relatively good earnings. The value of farm production was down \$3,839, or 2 percent, in 1993 compared to 1992.

Management returns for 1993 were \$14,381, compared to \$22,280 in 1992 and \$13,032 for the 5-year period from 1989 through 1993. Capital purchases were \$29,932 in 1993, \$14,759 higher than 1992 and \$8,170 higher than the 1989 through 1993 average. Capital purchases were at their highest level for any year during the last decade. Cash operating expenses decreased \$1,880, or 2 percent; depreciation increased \$5,516 and was \$4,163 above the average for 1989 through 1993.

In 1993, the rate earned on investment decreased to 7.21 percent from 7.65 percent in 1992. The average rate earned on investment for the period from 1989 through 1993 was 7.41 percent. The rate earned on investment in this 5-year period for this type of farm was the second highest of any type of participating farm in Illinois. The 1993 rate earned on investment was the second highest of any type of

Dairy farms. The net farm income in 1993 for southern Illinois dairy farms having 340 to 799 acres averaged \$106,122, with the operator's and landlord's shares combined (Table 8). This figure is \$18,381 below the net farm income earned in 1992 and \$7,476 below the average for the period from 1989 through 1993. This net farm income was the highest earned by any type of participating farm of this size in Illinois in 1993. Lower milk prices and lower grain yields caused the value of farm production to decrease by \$14,107 in 1993 compared to 1992. Net cash operating income increased by \$109 in 1993 compared to 1992, while the value of grain and livestock inventories increased by \$10,488. Cash operating expenses decreased \$5,066.

Capital purchases of \$31,777 were \$716 above 1992 capital purchases and \$1,413 above the average capital purchases for 1989 through 1993.

Management returns for this type of farm were \$27,969 in 1993; these returns were \$49,990 in 1992. The 5-year average from 1989 through 1993 was \$33,446. This type of farm had the highest management returns for any type of farm in 1993. The rate earned on investment of 8.69 percent was the highest in the state for this size of participating farm. The average rate earned on investment in 1992 was 11.16 percent, and the 5-year average from 1989 through 1993 was 10.12 percent. The average rate earned on investment by these southern Illinois dairy farms from 1989 through 1993 was the highest of any type of participating farm with 340 to 799 acres in Illinois. In 1993, the average value of bare land on these farms was \$1,244 per tillable acre. On northern

Illinois dairy farms, this value was \$1,685 per tillable acre.

The average number of milk cows per farm in 1993 was 93, compared with 100 in 1992, and with 96, the past 5-year average. The average of 93 cows in 1993 was 24 more than the average on farms of similar size and type in northern Illinois. In 1993, southern Illinois farms decreased the size of their herds by 7 cows over the 1992 herd size, while northern Illinois farms also decreased theirs by 5.

LIVESTOCK ENTERPRISES

The return per \$100 of feed fed from various livestock enterprises and the price of corn during each of the past 15 years are given in Table 9. Fifteen-year and 5-year averages are also shown. The difference between the average return figure and a feed cost of \$100 represents the margin available for labor, depreciation on equipment, cash expenses other than feed, interest on investment, and profit.

The margin needed to cover nonfeed costs varies with the kind of livestock and depends on the proportion of total production costs represented by feed. The 15-year averages from 1979 through 1993 represent the approximate level of return at which farmers have been willing to maintain livestock production. The average may not represent a break-even return on all farms because some farmers may discount market prices for some of the resources used in producing livestock. If farmers already have facilities for livestock, they only need to cover direct operating costs to continue production. However, when livestock production is a new or a long-term enterprise, farmers hope to cover all fixed and variable costs. Otherwise they should not undertake the enterprise.

As individual farmers try to increase profits, they tend to curtail livestock production when the return per \$100 of feed fed is below the 15-year average. This tendency on the part of producers causes supplies of livestock products to fluctuate.

In farrow-to-finish hog production, returns tend to follow a noticeably cyclical pattern (Table 9). They tend to exceed the 5-year average for 1 or 2 years and then drop below this average for 1 or 2 years. Returns per \$100 feed fed of \$174 in 1993 were slightly below the last 5-year average of \$175.

The returns from feeder cattle vary greatly from year to year. The long-run averages shown in Table 10 indicate that the cattle-feeding business has not been paying average market rates for all resources used by the enterprise. The return of \$145 per \$100 feed fed for the most recent 5-year period (1989-93) was slightly below the previous 5-year period but above the 15-year average of \$142 (Table 9). Above-average skills are needed in buying, selling, and feeding to meet the competition from other uses for time and money on farms with feeder cattle. Identi-

Table 9. Returns per \$100 of Feed Fed to Different Classes of Livestock

Year	Farrow- to-finish hogs	Feeder- pig finishing	Feeder- pig produc- tion	Feeder cattle bought	Dairy cow herds	Beef cow herds	Native sheep raised	Yearly price of corr
				dol	lars			
1979 1980 1981 1982 1983	136 138 138 213 141	106 122 115 165 118	194 153 174 237 163	149 111 107 147 134	220 207 200 205 178	183 144 100 115 115	148 131 84 83 78	2.44 2.80 2.98 2.43 3.06
1984 1985 1986 1987 1988	155 166 215 217 152	140 129 178 168 127	170 170 254 232 158	141 121 149 196 150	188 202 210 237 198	105 101 125 168 150	102 130 156 141 115	3.12 2.54 2.01 1.61 2.32
1989 1990 1991 1992	162 206 168 166 174	141 165 128 140 133	167 247 199 167 197	145 162 109 164 143	209 220 188 211 191	144 165 129 142 133	96 98 64 116 95	2.48 2.44 2.41 2.35 2.28
Avarages								
1979-1993 1979-1983 1984-1988 1989-1993	170 153 181 175	138 125 148 141	192 184 197 195	142 130 151 145	204 202 207 204	135 131 130 143	109 105 129 94	2.48 2.74 2.32 2.39

Table 10. Variation in Returns to Livestock Enterprise Units, 1989 Through 1993

Farrow- to-finish hogs (per cwt)	Feeder- pig finishing (per cwt)	Feeder cattle (per cwt)	Dairy cattle (per cow)	Beef herd calves sold (per cow) ^a
Returns above cost of fee	d and pur	chased a	nimals	
1989 \$16.71	\$10.20	\$18.66	\$1,334	\$144
1990 27.15	15.79	25.74	1,471	203
1991 17.67	6.80	3.97	1,064	88
1992 16.45	9.39	25.40	1,398	125
1993 18.76	7.89	17.10	1,178	92
Five-year				
average \$19.35	\$10.01	\$18.17	\$1,289	\$130
Nonfeed costs, 1989 throu	Jah 1993			
Direct cash \$ 6.65b	\$ 4.20°	\$12.68°	\$ 440°	\$ 30°
Other costs 9.76 ^b	6.60°	10.73°	618°	175°
Total \$16.41	\$10.80	\$23.41	\$1,058	\$205
Nonfeed cost for future pr	roduction			
Direct cash \$ 7.00	\$ 4.35 ^d	\$13.25d	\$ 450	\$ 30
Other costs 16.00	7.00	15.00	800	200
Total \$23.00	\$11.35	\$28.25	\$1,250	\$230

^a The feed cost for beef herds includes up to \$60 of hay equivalent from salvage

fying cyclical income movements over a 15-year period in the beef-cattle industry is difficult because this industry is more complex and adjusts more slowly than other livestock enterprises.

The returns above feed costs for dairy enterprises of \$1,178 per cow in 1993 were \$111 below the 5year average of \$1,289 (Table 10). These returns indicate that the average dairy enterprise has covered the total estimated cost of production of \$1,058 per cow from 1989 through 1993.

For the beef-herd enterprise, the average returns above the cost of feed for the period from 1989

through 1993 provided a margin over cash costs, but fell short of the return needed to cover all nonfeed costs (Table 10). The implication is that the beef enterprise competes most favorably on farms where the resources of labor, capital, and management are plentiful and have few alternate uses. In the beefcow enterprise, returns above the cost of feed per cow averaged \$130 during the last 5 years. The 1993 returns of \$92 were \$113 below the total costs, estimated at \$205 per cow. The 1993 returns to the beef-cow enterprise were the second lowest during the past 5-year period.

Raising livestock has become more competitive. Average profit margins are narrow. Fewer farmers are willing to stay in business because returns in some enterprises barely cover direct operating costs. Plans for expansion that require large investments for new facilities should be based on an estimated return that is high enough to cover all costs. Fluctuations in livestock returns can involve a risk in low-return years. The estimated nonfeed cost for future livestock production is also shown in Table 10.

Hog enterprises

The information on farrow-to-finish enterprises in Table 11 is based on a sample of 580 enterprises farrowing 10 litters or more per year. Farms were omitted from the sample if the number of hogs purchased exceeded 10 percent of the pigs weaned. This procedure eliminated from the sample those farms with combined farrowing and feeder-pig operations. (Information on feeder-pig finishing enterprises is given in Table 13.) The average size of farrow-to-finish enterprises on all recordkeeping farms was 242 litters in 1993. The 1993 records summarized here for the "all farms" group show that returns of \$18.76 above feed costs per 100 pounds of pork produced were \$2.31 above the 1992 return of \$16.45.

The 5-year average for returns above feed costs per 100 pounds produced was \$19.35 (Table 10). Even the 5-year average can vary significantly because of the wide fluctuations in returns from year to year. Detailed cost records show that an average farmer with existing facilities needed a return above feed costs of \$16.41 per 100 pounds to pay for all nonfeed costs during the past 5 years. The return above all costs during this 5-year period of \$2.94 (\$19.35 minus \$16.41) has led to expansion in the industry. Large integrators have expanded very rapidly. The near future will bring increased pork production and lower hog prices. Producers must assess their own financial situation and production capabilities very closely to determine the amount of risk they can assume if they expand their production with borrowed capital.

The farrow-to-finish enterprise records for 1993 reported in Table 11 were also sorted by the number of litters produced. One group farrowing 350 or

b Estimates of annual nonfeed costs are based on enterprise cost studies of operative

^{*}Estimates of annual nonread costs are based on enterprise cost studies of operative units from 1989 to 1993.
*Includes vaterianz costs, utilities, fuel, equipment repair costs, and depreciation, from Crop and Livestock Budgets, Examples for Illinois, 1993-1994 (AE-4700, April 1993).
*Includes interest on purchase cost: one-third year for feeder-pig finishing, and one-half year for feeder cattle.

Table 11. Hog Enterprises, 1993 Averages per Farm

		Farrow-f		sh		
			350 c	r more	F	eeder
	Α1	l farms	n	litters er farm	pro	pig duction
Number of farms	Al	580	Pi	111	proc	21
Pork produced, pound Pork produced per litter, pound Total returns Value of feed fed	\$2	1,944 206,933 18,592	\$5	1,910 1,910 39,081 90,988	\$10	75,649 688 09,442 55,660
Returns per \$100 of feed fed	\$	174	\$	185	\$	197
farrowed		242		634		255
per litter		9.67		9.69		10.28
Pigs weaned per litter Litters farrowed per		8.14		8.23		8.58
female year		1.87		2.03		1.88
female year		15.24		16.56		16.44
weaned		1,970		5,218		2,188
pounds produced Weight per market		1.9		1.9		2.5
hog sold, pound		241		239		47
		per 10	0 pou	nds pro	duced	
Price received— market	\$	46.49	\$	47.23	\$	90.08
Total return	\$	43.96 25.20	\$	44.49 24.02	\$	62.30 31.69
Return above feed	\$	18.76	\$	20.47	_	30.61
Farm grains, pound Commercial feed,	Ť	280	Ť	270	Ť	254
pound		87		86		124
Total concentrates, pound		367		356		378
Cost per 100 pounds of commercial feed	\$	15.80	\$	15.01	\$	17.15
Cost per 100 pounds of concentrates	\$	6.86	\$	6.73	\$	8.35

more litters averaged 634 litters. Compared with the average feed cost for all farrow-to-finish enterprises, the feed cost per 100 pounds of pork produced was \$1.18 lower for the 634-litter group. The large producers paid \$15.80 less per ton for commercial feed and had slightly better feed conversion. The prices received for hogs sold by large producers or the net at the farm was 74 cents higher than the net received by all producers.

A summary of the feeder-pig production enterprises is also reported in Table 11. In 1993, the average enterprise in this group produced 255 litters with a return of \$197 per \$100 of feed fed. On an average, 8.6 pigs per litter were weaned and sold at 47 pounds per head. The 1993 average price received per 100 pounds of feeder pigs sold was \$90.08 or \$42.34 per head. The average feed cost per 100 pounds of pork produced (pigs and breeding stock) was \$31.69 for 378 pounds of concentrate.

A substantial profit margin is required to com-

pensate for the risk and detailed management involved in hog production compared with other resource uses. Large-scale hog production in modern confinement facilities requires high capital investments. The future recovery of this capital investment is uncertain. The salvage value of confinement hog facilities is low. In addition, acquiring the managerial skills for the large-scale production of hogs in confinement may discourage any rapid expansion of large hog-producing units. However, the level of profits in recent years has resulted in an increase in production. Pork production for 1994 is projected to be at record levels. Although improvements in production efficiency and some increase in consumer demand have helped offset lower prices due to increased production, future returns will depend to a great extent on whether producers continue to increase production or liquidate some of the breeding herd.

The data on hog enterprises in Table 12 show a detailed breakdown of costs and returns from a group of specialized commercial hog farms for 1991, 1992, and 1993. The value of the feed fed to hogs was more than 75 percent of the crop returns produced on these farms. This intensity of livestock feeding indicates a commitment of major resources to the hog enterprise. The producers in this group probably exercise a higher level of management and use more confinement production facilities than the average

hog producer in Illinois.

The hog enterprise records summarized in Table 12 were sorted by the number of litters produced. The group farrowing fewer than 250 litters averaged 149 litters from 1991 to 1993; the group farrowing 250 or more litters averaged 491 litters during the same period.

The cost data reported in Table 12 have been divided into two categories: cash costs and other costs. This classification of production costs is important when short-term management decisions are being made concerning the volume of production, partic-

ularly during periods of low prices.

As reported in Table 12, cash costs of production in 1993 ranged from \$31.74 to \$31.89 per 100 pounds of pork produced, depending on the grouping size. Feed is included as a cash cost although for most producers a major share of the grain is raised on the farm. The readily available alternative cash market for grain makes the raised feed the same as cash.

The other category of costs includes depreciation, labor, and an interest charge on all capital. Part of the labor and interest charge is a cash cost on most farms. The proportion of labor that is hired depends largely on the size of the farm. A one-person farm does not hire much labor, whereas a major share of the labor will be hired on a four-person farm.

While most categories of nonfeed costs did not change much, labor and depreciation increased for both groups of enterprises in 1993. This is a reflection of higher labor costs and increased investment into

Table 12. Average Costs and Returns for Farrow-to-Finish Hog Enterprises by Size of Enterprise, 1991 Through 1993

	l	Jnder 250 litte	rs	25	0 litters or mo	ore
	1993	1992	1991	1993	1992	1991
Number of farms	36	41	52	94	92	101
Tillable acres	207	231	255	485	504	564
	138	155	155	511	466	495
			per 100 pounds	of pork produced		
Total returns	\$ 44.14	\$ 40.36	\$ 42.88	\$ 44.96	\$ 42.01	\$ 44.46
Cash costs Feed Operating expenses: Maintenance and power ^a	\$ 26.35	\$ 25.93	\$ 26.61	\$ 25.18	\$ 24.39	\$ 25.02
	2.95	3.03	3.80	3.20	3.18	3.96
Livestock expenses	1.61	1.63	1.99	2.36	2.38	2.24
	.98	1.14	1.05	1.00	1.27	1.02
Total operating expenses	\$ 5.54	\$ 5.80	\$ 6.84	\$ 6.56	\$ 6.83	\$ 7.22
	\$ 31.89	\$ 31.73	\$ 33.45	\$ 31.74	\$ 31.22	\$ 32.24
Other costs Depreciation ^b	\$ 2.58	\$ 2.23	\$ 1.84	\$ 3.30	\$ 2.74	\$ 2.34
	4.43	4.18	4.33	4.09	3.84	4.28
	2.53	2.54	3.20	2.49	2.51	3.25
Total other costs	\$ 9.54	\$ 8.95	\$ 9.37	\$ 9.88	\$ 9.09	\$ 9.87
Total nonfeed costs	\$ 15.08	\$ 14.75	\$ 16.21	\$ 16.44	\$ 15.92	\$ 17.09
	\$ 41.43	\$ 40.68	\$ 42.82	\$ 41.62	\$ 40.31	\$ 42.11
	\$ 2.71	\$32	\$.06	\$ 3.34	\$ 1.70	\$ 2.35

Includes utilities, machinery, equipment and building repairs, machine hire, and fuel building machinery, equipment, and building depreciation.

Table 13. Feeder-Cattle and Feeder-Pig Finishing Enterprises, 1993 Averages per Farm

	-	
	Feeder cattle	Feeder-pig finishing
Number of farms	183	158
Total pounds produced	\$ 74,033 \$ 143	161,795 \$ 51,945 \$ 39,185 \$ 133
Average weight purchased	663 \$ 85.85	51 \$ 92.85 \$ 45.76 246
	per 100 pou	nds produced
Total returns	\$ 39.93	\$ 32.11 \$ 24.22
Return above feed	\$ 17.10	\$ 7.89
Farm grains, pound	625 42	294 80
Total concentrates, pound	667	374
Hay, pound	444	a a a

⁸ Data not available

production facilities and equipment. Total nonfeed costs increased 33 cents per 100 pounds of pork produced (3 percent) for the small enterprises and 52 cents (2 percent) for the large enterprises from 1992 to 1993. For both groups, both total operating expenses decreased and total other costs increased. With slightly higher feed costs, the total cost of

production increased from 1992 to 1993 by 75 cents per 100 pounds of pork produced for the group of small enterprises and \$1.31 for the large enterprise group.

The most significant cost difference between the two groups of farms was the feed cost. The average feed cost for 1991, 1992, and 1993 per 100 pounds of pork produced for the large enterprises was \$1.44 lower than it was for the small enterprises. This difference in feed cost was an average of about \$14,000 per farm with the larger enterprises. Differences in the amount of feed used per 100 pounds of pork produced and the price paid for commercial feeds caused this difference in feed costs.

From 1991 through 1993, the returns above all costs averaged 82 cents per 100 pounds of pork produced for the small enterprises and \$2.46 for the large enterprises—a difference of \$1.64. Management practices, such as the choice of building systems, method of transporting hogs to market, type of market used, and on-versus off-farm systems for feed-processing affect the individual cost items reported in Table 12. But the return above all costs should accurately reflect the relative efficiency of the two groups of hog enterprises.

Feeder-cattle and feeder-pig finishing enterprises

Data for 1993 on the feeder-cattle and feederpig finishing enterprises are presented in Tables 13 and 14. These enterprise summaries include weights and values on partly finished animals purchased in

Table 14. Average Costs and Returns for Beef-Feeding Enterprises, 1990 Through 1993

	1993	1992	1991	1990	1990-1993 average
Number of farms	26	28	34	36	31
Tillable acres. Hundredweight beef produced. Number head @ 475-pound gain equivalents Average weight purchased, pound. Average weight sold, pound. Price received per 100 pounds sold Price paid per 100 pounds purchased	536	625	571	610	586
	3,255	3,694	3,069	3,585	3,401
	685	778	646	755	716
	670	673	665	654	666
	1,164	1,163	1,180	1,133	1,160
	\$ 76.11	\$ 74.12	\$ 72.66	\$ 76.77	\$ 74.92
	\$ 87.05	\$ 82.79	\$ 88.11	\$ 86.65	\$ 86.15
		per 100	pounds of beef pro	duced	
Cash costs Feed*	\$ 39.99	\$ 38.44	\$ 41.17	\$ 40.09	\$ 39.92
	3.95	3.25	3.81	3.71	3.68
	2.68	2.38	2.32	2.25	2.41
	1.79	1.15	1.30	1.18	1.36
	5.99	6.09	7.46	8.47	7.00
Total operating expenses	\$ 14.41	\$ 12.87	\$ 14.89	\$ 15.61	\$ 14.45
	\$ 54.40	\$ 51.31	\$ 56.06	\$ 55.70	\$ 54.37
Other costs Depreciation ^d Labor Interest on other capital	\$ 4.84	\$ 3.18	\$ 3.76	\$ 4.05	\$ 3.96
	2.49	2.66	2.61	2.20	2.49
	2.33	2.37	2.44	2.65	2.45
Total other costs	\$ 9.66	\$ 8.21	\$ 8.81	\$ 8.90	\$ 8.90
Total all costs	\$ 64.06	\$ 59.52	\$ 64.87	\$ 64.60	\$ 63.27
	\$ 57.05	\$ 63.50	\$ 45.65	\$ 67.23	\$ 58.36
Return above all costs	\$ -7.01	\$ 3.98	\$-19.22	\$ 2.63	\$ -4.91

a All grain fed was priced at the average market price for the year. Market values were used for roughage fed while protein and minerals were charged at cost. All the feed fed is

assumed to have been marketable.

Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.

Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.

Includes ta a charge on the average value of beginning and end-of-year inventories on hand. The rate was 10 percent for 1990, 9 percent for 1991, and 7 percent for 1992 and

d loculdes machinery, equipment, and building depreciation.

Sales less cost of purchased animals, plus or minus inventory value change. No credit has been calculated for reduced fertility cost when manure is applied to crops

previous years and on animals purchased during the current year.

The average amount of pork produced per farm from feeder-pig enterprises was 161,795 pounds in 1993 (Table 13). At 195 pounds of gain per head, this figure amounted to 830 head fed per farm in 1993, down from the 859 head fed per farm in 1992.

The return above the cost of feed and purchased animals from 1989 through 1993 averaged \$10.01 per 100 pounds of gain. This return was 79 cents below the \$10.80 of all nonfeed costs for the past 5 years. It is also below the estimated \$11.35 required to cover all costs for future production (Table 10).

Given that a 475-pound unit of gain equals one head of feeder cattle, the average of 185,404 pounds of beef produced per farm in 1993 (Table 13) equals 390 head of feeder cattle per farm. That figure is an increase of 35 from the average of 355 head fed per farm in 1992. The return per \$100 of feed for feeder-cattle enterprises was \$143 in 1993 in comparison with a 5-year average of \$145 and a 15-year average of \$142 (Table 9).

The price paid for feeders was \$4.21 per 100 pounds higher in 1993 than it was in 1992; the price received for cattle sold in 1993 was \$2.18 higher per 100 pounds than the price received in 1992. The average weight of purchased animals was 663 pounds; the average weight of animals sold was 1,138 pounds. Feed cost was \$39.93 per 100 pounds produced in 1993; it was \$39.11 in 1992.

Each 100 pounds of beef produced required 667 pounds of concentrates and 58 pounds of hay. The amount of corn silage used in 1993 averaged 444 pounds; other silage averaged 103 pounds, making a total of 547 pounds. Silage utilization by the feedercattle enterprise has decreased the last 5 years since the 10-year average for the period from 1977 through 1986 reached 906 pounds per 100 pounds of beef produced. The use of 547 pounds per 100 pounds of beef produced in 1993 was the smallest amount fed since 1963. The high initial investment required for many silage feeding operations and a slowdown in capital purchases may denote more reliance on higher concentrate and dry roughage facilities.

These data do not show the wide variation in profits among cattle-feeding programs. The data on Illinois feeder-cattle enterprises in Tables 9, 10, and 13 reflect the composite results of all qualities and ages of cattle fed. The data are heavily weighted, with good-to-choice calves and yearlings as the predominant cattle-feeding system. Most farmers now feed more than one drove of cattle each year to better utilize their fixed investments in mechanized feedlots.

The return above the cost of feed and purchased animals averaged \$18.17 per 100 pounds of beef produced from 1989 through 1993 (Table 10). Dur-

ing this period, returns ranged from \$3.97 in 1991, to \$25.74 in 1990. The returns above feed costs have remained below the estimated costs required to pay for all nonfeed costs for the average cattle feeder in 3 of the last 5 years. The 1992 returns above feed cost of \$25.40 were the third highest since 1975. The 1991 returns were the lowest since 1981.

The data on feeder-cattle enterprises in Table 14 show a detailed breakdown for the period from 1990 through 1993 on cost and returns to produce beef on beef-feeding farms. The farms included had no other livestock. All costs were accounted for either in crops or in the beef-feeding enterprise. The figure for feed costs is based on the assumption that all the grain and roughage fed was produced on the farm and was marketable.

The data show that these farms were finishing an average of 716 feeders each year from 1990 through 1993. The 4-year average total cash cost including feed and interest charged on cattle was \$54.37 per 100 pounds of beef produced. The average total return of \$58.36 for the same period exceeded total cash costs by \$3.99 per 100 pounds

produced, or about \$19 per feeder.

Some feeders may be able to discount some of these cash costs for roughage fed and for interest on cattle if they had no market for the roughage or were able to use their own money invested in cattle without paying interest. Other costs of \$8.90 per 100 pounds of beef produced or \$42 per feeder (\$8.90 multiplied by 4.75 hundredweight of gain per feeder) include depreciation, labor, and interest. Adding the other costs to cash costs results in total costs of \$63.27 per hundredweight over the 4-year period.

A number of cattle feeders in Illinois apparently will feed cattle if their return covers feed and cash costs but is short of paying market rates for some nonmarketable roughage, and fixed and overhead costs. But this number is expected to decline.

Farmers' values, goals, and attitudes have been important in maintaining production; but the dictates of the market, technological changes, and shifts in the basic factors of supply and demand continue to cause changes. The return reflected in these averages for the feeder-cattle enterprise suggests that to be profitable, farmers must produce the kind of beef the consumer wants at the lowest possible cost. Even though farms may have nonmarketable feeds, unemployed labor, or fixed capital investments in facilities, these data indicate returns are not consistently high enough to justify the building of new facilities.

Dairy enterprises

The minimum size for a herd included in this analysis was 10 milk cows. The average herd size on recordkeeping farms increased steadily at an average of 1.8 cows per year from 42 in 1970 to 63 in 1982. The herd size has remained steady, between 63 and 69 cows, since 1982.

The return per \$100 of feed fed to dairy cattle in 1993 was \$191. The average for the period from 1989 through 1993 was \$204 (Table 9). In 1993, milk prices per hundredweight decreased 4 percent from 1992 but were 7 percent above prices received in 1991. From 1992 to 1993, beef prices for all weights sold decreased \$1.01 per hundred pounds, while feed costs increased \$3.00 per unit of milk or beef produced.

Dairy farmers have reduced the amount of pasture and dry hay and have increased the amounts of grain and silage fed over the past two decades. Pasture days per animal unit dropped from 145 in 1960, to 50 in 1970, to 8 in 1993. This shift indicates that

Table 15. Dairy Cattle Enterprises, 1993 Averages per

	All	Effic	iency	
	farms	Higha		Lowb
Number of farms	169	59		57
Number of cows Milk cows dry, percent Animal units in herd	68.5 14.3 128	68.6 14.4 133		63.4 13.7 115
Total returns	169,283 88,567	\$ 197,168 90,198	\$	128,893 78,694
feed fed Returns above feed	\$ 191	\$ 219	\$	164
per cow	\$ 1,178	\$ 1,559	\$	791
100 pounds	11,625	12,893		9,314
per cow	16,970	18,794		14,690
Pounds of butterfat per cow	633	687		555
Total beef produced, pound	43,501	50,885		35,655
Pounds of beef per cow	635	741		562
Death loss, percent of pounds produced	11.3	8.1		15.7
Price received for: 100 pounds of milk 100 pounds of beef Per unit of milk and beef:	\$ 12.53 59.53	\$ 12.63 60.43	\$	12.32 58.65
Feed cost Grain, pound Protein and	\$ 55.44 322	\$ 50.16 281	\$	61.10 380
minerals, pound	119	118		117
Total concentrates, pound Hay and dry	441	399		497
roughage, pound Corn silage, pound Other silage, pound Pasture days	232 542 433	187 486 347		301 605 538
Pasture days per animal unit	8	11		8
Hay equivalent per cow, ton	7.2	6.8		7.7
Concentrates per cow, pound	10,284	10,455		10,094

 ^a High one-third return above feed per cow exceeds 1,295.
 ^b Low one-third return above feed per cow is below 965.
 ^c 1,000 pounds of milk or 100 pounds of beef.

No significant pasture use.

Table 16. Average Milk Production Costs and Returns by Size of Herd, 1991 Through 1993

	40 1	to 79 cows in	herd	80 or more co	ws in herd
	1993	1992	1991	1993 1	992 1991
Number of farms	69	81	80	46	52 59
Tillable acres	270 58.2 16,657	269 58.9 16,883	259 57.6 16,789	105.1 10	426 522 06.2 107.9 807 17,056
			per 100 pounds	s of milk produced	
Price received	\$ 12.79	\$ 13.25	\$ 11.82	\$ 12.53 \$ 13	3.07 \$ 11.90
Cash costs Feed	\$ 6.65 1.30 1.27 .19 \$ 2.76	\$ 6.35 1.20 1.18 .21 \$ 2.59	\$ 6.23 1.17 1.13 .26 \$ 2.56	1.28 1.28 1.28	6.08 \$ 6.02 1.28 1.35 1.12 1.13 .21 .26 2.61 \$ 2.74
Total cash costs	\$ 9.41	\$ 8.94	\$ 2.56 \$ 8.79		3.69 \$ 8.76
Other costs Depreciation ^b Labor	\$.83 1.71 1.23	\$.73 1.66 1.22	\$.61 1.59 1.34	\$.74 \$ 1.48 1	.63 \$.67 1.36 1.49 .97 1.30
Total other costs	\$ 3.77	\$ 3.61	\$ 3.54	\$ 3.22 \$ 2	2.96 \$ 3.46
Total nonfeed costs	\$ 6.53	\$ 6.20	\$ 6.10	\$ 6.00 \$ 5	5.57 \$ 6.20
Total all costs	\$ 13.18	\$ 12.55	\$ 12.33	\$ 12.43 \$ 11	1.65 \$ 12.22
Return above all costs	\$39	\$.70	\$51	\$.10 \$ 1	1.42 \$32

^a Includes utilities, machinery, equipment and building repairs, machine hire, and fuel.
^b Includes machinery, equipment, and building depreciation.

significant pasture days are a thing of the past on nearly all dairy farms in this sample.

The dairy herds in Table 15 were subdivided into two groups according to their efficiency as measured by returns above the cost of feed per cow. In comparison with the low-efficiency group, the highefficiency group had more cows in the herd, and 97 percent higher returns above feed per cow. Returns above feed per cow for the high-efficiency group were \$1,559 and \$791 for the low-efficiency group. For the high-efficiency group, two factors were most significant: 28 percent higher milk production per cow—an average of 18,794 pounds, compared with an average of 14,690 pounds for the low-efficiency group—and an 18 percent lower feed cost per unit of milk and beef produced.

The average return above feed costs per cow for all dairy herds was \$1,178 in 1993 (Table 15). This figure compares with the 5-year average of \$1,289 per cow (Table 10). The 5-year average return above feed cost required to pay market prices for all nonfeed costs is estimated to be about \$1,058 per cow. The estimated return above feed costs currently required to attract new investments for dairy herds is about \$1,250 per cow. Although the number of dairy herds has decreased, their size and efficiency have increased, and they have continued to increase the milk supply. Normal depreciation and wear-and-tear will soon require the reinvestment of greater amounts of capital in some of these businesses.

The data in Table 16 on dairy enterprises show a detailed breakdown of milk production costs and

returns for dairy farms by the number of cows in the herd in the period from 1991 through 1993. The farms included had no other livestock. All costs were accounted for either in crops or in the dairy enterprise. The total costs for the dairy enterprise were reduced by the amount of income derived from an inventory increase in the pounds of beef produced or from sales, which was valued at the average price received for all weights of dairy animals sold from 1989 through 1993. The residual costs, amounting to 86 percent of the total enterprise costs, were then considered as the net cost of producing milk.

The differences between the herds containing 40 to 79 cows and those containing 80 or more cows for the period from 1991 through 1993 appear to be narrowing. This is probably due to the smaller, lower-efficiency herds exiting the dairy enterprise. For the 3-year period, the milk price for the larger herds averaged 16 cents less, while total nonfeed costs per 100 pounds of milk sold were 36 cents lower. The major cost difference was 21 cents less for labor on the large farms.

In 1993, feed costs per 100 pounds of milk produced increased for both groups. The cost of feed averaged about 50 percent of total production costs in Illinois dairy enterprises. Total nonfeed costs increased 5 percent for the small dairy herds and 8 percent for the large dairy herds when compared with costs in 1992. The total cost of producing 100 pounds of milk in 1993 was \$13.18 for the small herds and \$12.43 for the large herds. The average price received for milk in 1993 decreased for both groups of dairy

Table 17. Beef-Cow Enterprises, 1993 Averages per Farm

	All farms	Calves sold	Calves fed out
Number of farms	226	79	55
Number of cows in herd Animal units in herd Total pounds produced Beef per cow in herd,	. 67 . 32,981	44 56 21,056	46 76 50,283
Total returns	\$22,465	478 \$15,287 \$11,731	1,093 \$32,736 \$22,613
feed fed	. \$ 133	\$ 130	\$ 145
per cow	\$ 125 1,716	\$ 80 1,610	\$ 220 1,635
produced	5.2	7.6	3.2
Weight per market animal sold, pounds Price received per 100 pounds sold —	809	514	1,074
market animal		*	
	per 1	00 pounds p	roduced
Feed cost		\$ 55.71 135	\$ 44.97 290
pound		_32	_32
Total concentrates, pound Hay and dry	. 294	167	322
roughage, pound Corn silage, pound Other silage, pound	358	930 256 37	497 338 79
Pasture days		43	20
Pasture days per animal unit Hay equivalent per	. 150	164	137
cow, tons	5.9	5.0	6.2

enterprises. The lower milk prices and higher costs resulted in returns above total production costs of a negative 39 cents and 10 cents, respectively, for both the small and large enterprise groups in 1993. The returns above all costs for the large-herd group have averaged per 100 pounds of milk produced 47 cents more than the returns for the small-herd group from 1991 through 1993. This amounts to \$8,222 more in returns per farm per year for herds in the large-size group. Due to lower milk prices and higher costs, returns to dairy farmers declined in 1993 and were below the average for the last 5 years.

Beef-cow herds

The minimum size for a beef-cow herd included in Table 17 was 10 cows. Farms combining cow herds and purchased feeder cattle were not included. In addition to all farms, Table 17 gives an analysis of cow herds in which calves were sold at weaning time and compares them with cow herds in which calves were finished to slaughter weights. From 1956 through 1969, the average size of the herd on all farms ranged from 25 to 30 cows. From 1969 to 1973, the average

Table 18. Sheep Enterprises, 1993 Averages per Farm

	Native flocks
Number of farms	38
Wool and mutton produced, pound	6,629 \$3,124 \$3,276 \$ 95
Percent lamb crop	148 623 9.4
Price received	\$50.78 \$49.42 360 543 0 20 1,028

grew to about 40 cows per herd and remained stable through 1989. The herd size increased to 44 cows in 1993. Most Illinois farmers who maintain a beefcow herd do so as a supplemental enterprise to market nonsalable feeds and labor.

The return per \$100 of feed fed to beef-cow herds averaged \$133 in 1993. The return for the 5-year period from 1989 through 1993 averaged \$143, which is above the 15-year average of \$135 for the period from 1979 through 1993 (Table 9). Beef prices received in 1993 averaged \$78.59 per hundredweight, an increase of 24 cents over beef prices in 1992. Feed costs per 100 pounds of beef produced decreased by only 2 cents to \$51.37 in 1993.

Since 1989, the return above feed cost per cow for the average farmer to feed out calves rather than to sell them at weaning has been about \$95 per cow. Additional returns are needed for the added costs of labor, buildings, and the capital required to feed out the calves. In 1993, return above feed cost for feeding calves to market weight was \$140 more per cow than for selling calves.

Sheep enterprises

Sheep production is a minor enterprise on Illinois recordkeeping farms. The minimum size of enterprise in Table 18 is 3 animal units. One animal unit of sheep is defined as 750 pounds, liveweight. The return per \$100 of feed fed in 1993 was \$95 for native flocks. The returns per \$100 of feed fed have been less than \$100 for 4 out of the last 5 years. The pounds of wool and mutton produced per farm have remained fairly constant for the past 10 years. The price received for sheep increased from \$48.51 per hundredweight in 1992 to \$50.78 in 1993, while feed costs per hundredweight produced increased by \$6.94 to \$49.42. Most Illinois farmers who keep sheep do so as a supplemental enterprise in order to market nonsalable feeds and labor.

Costs, returns, f yields for differ in Tables 19 to	inancial summar rent sizes and ty 27a.	ies, investme pes of Illino	ents, land ois farms	use, and cro are reporte

Table 19. 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois Grain Farms with Soil Ratings from 86 to 100

Grain Farms with Soil Ratings from 86 to 100	III Katıngs 1rc	om 86 to 100						
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340-799	799
Management returns Number of farms	28	419	241	140		856	105	105
Total acres in farm	772	577	926	1,603		838	532	029
Acres of tillable land	208	228	943 853	1,549		000	512	85 S
Soll rating on tiliable land	11 4	2 ° C	16.7	24.4		15.7	10.7	12 0
Months of hired labor	0.4	i-	6.4	10.0		4.6		j
Beef produced, hundredweight Pork produced, hundredweight	00	00	mc	40		×-	or-	-0
Dairy cows, number	0	0	0	10		0	0	0
Dollar returns per farm	930 90	206 220	254 605	E02 427		201 072	167 674	255 750
Livestock returns above feed	90,00	47	276	152		126	16	78
Custom work	1,130	2,051	3,533	6,198		3,086	1,635	2,416
Other farm receipts	9/8	1,/45	2,290	3,840		2,184	1,664	2,2/0
Dollar costs per farm	20,200	403, 104	200,134	020,260		010,100	808'0/1	*10,002
Crop expenses	20.873	43.108	72.580	117.824		62.171	42.541	45.731
Power and equipment	17,549	32,966	53,074	83,581		45,897	35,068	33,026
Building and fence	5,946	8,895	13,778	20,930		12,045	10,671	7,749
Labor	288,71	20,187	20,032	4,0,04		20,103	20,207	20,300
Taxes	5.646	11.295	18 797	30.069		16.108	10.656	12.369
Insurance and miscellaneous	3,330	5.705	8,392	13,049		7.507	5,429	5,892
Interest on nonland capital	5,580	11,353	18,881	33,151		16,660	11,490	12,154
Land charge or net rent	27,330	56,783	95,254	157,106		82,095	52,013	63,630
Total nonfeed cost	104,207	190,504	307,603	496,005	***************************************	267,792	188,339	201,111
Menodement refund	(4 413)	20 117	EA 743	00 ADS		41 220	(16 776)	61 702
Farm production per \$1.00	(2) 14(1)	1110	24,12	200			facilitati	40.610
of nonfeed costs	0.95	1.10	1.17	1.19		1.15	0.91	1.30
Farm production per man	104,373	196,382	258,663	291,465		234,871	162,124	242,607
Financial summary	1							1000
Cash operating income Inventory change	102,793	207,239	348,199	566,441 60,630		298,840	180,394	33,824
Accts, receivable (net change)	(6,835)	(12,925)	(19,685)	(29,281)		(17,105)	(12,883)	(13,192)
Farm products used	103	286	594	802		446	152	480
Less purchased feed	0 (135	795	5,513		1,192	1 23	214
Less purchased livestock	00000	6/1	288	455		241	9/1	130
Cash operating expense	45,828	90,155	149,617	246,303		129 534	90,569	94.174
Prepaid expense (-if increased)	577	(2,801)	(4,153)	(8,266)		(3,855)	(1,910)	(3,929)
Accts. payable (+if increased)	(262)	(337)	(32)	(86)		(202)	(532)	(241)
Farm-produced inputs	103	253	220	772		417	131	459
Total operating expense	46,245	87,268	146,000	238,708		125,888	88,256	90,461
Income before depreciation	52,723	121,912	214,792	353,915		181,4/9	82,734	170,055
Less depreciation	7,755	16,808	27,808	144,541		23,848	18,718	16,311
Nat form income *	202 30	106 543	188 527	212 150		159 282	64 590	156 134
(operator's share) *	20,534	42,733	70,788	106.051		59,535	19.715	68,727
Labor & mgt. income per operator	12,827	37,911	71,175	99,459		55,701	671	79,784
Mare Ballied Oil Illy Still oil, 76	4.03	and dellar Form	0.7	70 t of 30 more	April of the control	21.0	S. Company	io coile

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 19a. 1993 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Northern and Central

Management retums Number of farms	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms	340	340-799
Number of farms	8			7		i d	Low 25%	High 25%
	8	419	241	140		856	105	105
Some costs and returns per tillable acr	0	:						
Soil fertility	35.10	33.13	32.21	32.66		32.73	35.55	30.83
Pesticides	24.54	25.70	26.41	25.17		25.74	27.79	23.52
Seed and other crop	18.36	18.47	18.36	18.22		18.35	19.80	17.75
Crop total	78.00	77.30	76.99	90'92		76.82	83.14	72.10
Light vehicle and utilities	6.44	4.62	3.65	3.02		3.84	5.18	4.01
Machinery repairs, supplies	17.86	14.92	14.86	13.56		14.54	16.15	13.23
Machinery hire	8.76	5.85	4.73	4.60		5,15	9.14	4.36
Fuel and oil	9.50	8.02	7.87	7.93		7.97	8.40	7.47
Machinery depreciation	23.02	25.70	25.19	24.85		25.21	29.67	23 00
Power and equipment total	27.75	59 11	26.30	53 96	200	56 74	68 54	52.07
Drying and clorade	13.07	1001	32.00	2.0		800	44.65	20.00
Building repair	200	151	1 53			5.5	20.0	0.70
Building depreciation	2.5	4.43	4.34	2 80		4 25	20.3	0.70
Building total	20.00	15 95	14.61	13 51		14 88	20.00	49.99
abor uppaid	64 64	32.81	20.84	14.68		23.80	34 04	20.00
l abor hired	2.19	333	7.41	11.19		7 13	4.70	2.73
l abor total	66.83	36.20	28 25	25.87	Adam and the state of the state	34 05	30.61	30.05
Value of feed fed	800	0.50	0 14	710		0.10	747	acio
Capital purchases	26.53	33.43	33.30	36.67		34.25	37.06	27.84
Operator interest paid	14.71	15.65	14.74	14.26		14.90	18.74	13.23
Crop returns	362.33	368.19	376.22	375.99		373.14	327.69	403.22
Livestock return above feed	0.02	0.08	0.29	0.10		0.16	0.03	0.12
Value of farm production	369,85	375.08	382.69	382.57		379.81	334.17	410.73
Total nonfeed cost	389.43	341.59	326.27	320.20		330.90	368.08	317.08
Management returns	(16.50)	36.07	58.07	64.17		50.95	(32.79)	97.42
Farm investment	•	0	1000	000		0	700	000
Uvestock Inventory	68 031	121 720	927	368 444		100 671	100 603	764 544
Remaining cost in	2000	27,10	107,037	1000		135,011	200,50	C't
machinery and auto	11,019	28,366	49,751	99,266		44,848	32,409	27,134
buildings and tence	9,423	16,212	21,467	38,563		20,903	23,819	11,133
Value of land (current)	607 339	1 261 843	2 116 748	3 401 236		1 824 336	1 155 844	1 413 007
Total farm investment	696,758	1,438,479	2.414.228	3,998,551		2,083,373	1,322,023	1,617,089
Total investment per acre	2,511	2,493	2,473	2,494		2.487	2,484	2,488
Machinery invest, per till, acre	41	51	SS	49		55	83	43
Percent tillable land in								
Corn and com silage	50.0	48.0	47.0	48.1		47.7	50.1	47.4
Soybeans	4.7	0.0 0.4	4.04	2.4.0		20,0	0.7	8.04
Other small arein	- 0	9 0	000	000		000	: c	5.0
Diverted acres	. r.	0.0	5.0	0.4		. r	. u	0.6
All have and pacture	† •		n c	7		- 0	200	ř
Crop vields bushels per acre	5	-	5.5	7.0		0.5	5.	5
Com	141	147	151	149		149	130	159
Sovbeans	48	40	49	2 2		49	46	35
Wheat	9	47	22.0	49		20	3.4	8 22

Table 20. 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Northern and Central Illinois

Grain Farms With Soil Hatings from 56 to 85	Hatings Tr	om 56 to 85						
Range in size (total acres)	180-339	340-799	800-1199	Over 1199	Your Farm	All Farms		340-799
Management returns Number of farms	9	284	131	105		290	Low 25% 71	High 25%
Total acres in farm	272	588	896	1,680		859	554	676
Acres of ullable land	407	200	310	920,		3.5	200	18
Total manths labor	0+0	10 + 0	- u	000		1 4 4	42.0	\ c
Months of hirad labor	-α <u>i</u> c	- C	n o	5.0		- 6	2	16.3
Reaf produced hundredweight	; -	io	14	10		i i	0	
Pork produced, hundredweight	0	0	0	2		0	0	0
Dairy cows, number	0	0	0	0		0	0	0
Dollar returns per farm								
Crop returns	83,171	183,351	306,328	487,591		262,008	142,469	239,731
Livestock returns above feed	72	(4)	47	473		102	(3)	2
Custom work	1,233	2,092	3,548	5,589		3,027	1,909	2,334
Other farm receipts	295	1,865	2,200	3,210		2,102	1,970	1,435
Value of farm production	85,037	187,303	312,124	496,863		267,240	146,344	243,502
Dollar costs per farm						0 0 0	000	
Crop expenses	19,959	40,431	69,926	112,209		59,326	39,526	43,435
Power and equipment	17,888	32,677	52,859	83,805		45,928	35,573	32,739
Building and fence	5,110	7,689	13,311	19,366		11,010	8,245	6,958
Labor	18,840	20,327	24,808	33,775		23,791	21,392	20,087
Livestock services and supplies	157	141	44	232		160	245	122
Taxes	4,223	9,200	14,896	23,583		12,874	9,368	9,726
Insurance and miscellaneous	3,069	5,661	9,472	12,910		7,727	5,485	6,097
Interest on nonland capital	4,933	10,015	18,015	28,256		14,944	9,597	11,109
Land charge or net rent	22,020	47,106	76,056	125,032		869'99	43,151	54,307
Total nonfeed cost	96,198	173,244	279,483	439,164		242,453	172,583	184,578
Capital account adjustment	450	1,041	1,745	2,273		1,392	789	630
Management returns	(10,740)	15,100	34,384	59,972		26,179	(25,448)	59,553
of nonfeed costs	0.88	1.08	1.12	1.13		1.10	0.85	1.32
Farm production per man	84 265	172.219	241 704	280.149		212.387	129.463	226,193
Cinopolol Cummon		Î				j		
Cash operating income	91.188	186.373	314.411	498.752		268.097	159.906	231.808
Inventory change	(376)	13.013	18.875	32,609		17,102	(1,998)	26,226
Accts. receivable (net change)	(5,439)	(11,859)	(19,685)	(28,927)		(16,431)	(11,513)	(13,824)
Farm products used	,09	246	,009	809		421	189	357
Less purchased feed	393	428	1,789	6,119		1,811	222	1,022
Less purchased livestock	0	42	272	260		133	15	41
Adjusted gross farm income	85,037	187,303	312,139	496,863		267,244	146,344	243,502
Cash operating expense	44,199	70000	142,401	(40,004)		928,121	83,975	87,118
Anoth Repeald expense (-if increased)	(808)	(2,609)	(2,050)	(10,231)		(4,488)	(165,1)	(3, 139)
Form-produced invite	109	(105)	(190)	(257)		408)	183	257
Total operating expense	43 307	81.126	137.747	218.827		117.489	82.798	84.394
Income before depreciation	41,730	106.176	174,393	278,037	-	149.754	63,546	159,108
Less depreciation	8.141	16,381	28,238	43,061		23,569	18,336	16,214
Capital account adjustment	420	1,041	1,745	2,273		1,392	789	630
Net farm income *	34,009	90,836	147,900	237,249		127,578	46,000	143,523
(operator's share)	17,797	35,629	50,653	74,418		45,143	9,519	67,325
Date carried on investment %	900'/	33,283	52,815	7,1,48		25,24	(,,557)	2,000
יומנס פמוווסס פון ווואפטוווים וויי	-	1 1 1 1	1000	00000	Alt.		100	

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils. Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

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וימונקט ווו פולם (וטומו מכופט)	2000	2010	000	661193	TOOL PAILE	SILIS IN	3	0001000
Management returns							Low 25%	High 25%
Number of farms	40	284	131	105		560	71	71
Some costs and retums per tillable acr	0							
Soil fertility	33.60	31.35	32,49	32.26		32.03	35.16	29.06
Pesticides	25.74	24.13	25.71	25.21		24.97	25.19	21.46
Seed and other crop	19.16	17.06	18.68	16.94		17.50	17.85	15.93
Crop total	78.50	72.54	76.88	74.41		74.50	78.20	66.48
Light vehicle and utilities	9.25	5.10	4.07	3.32		4.29	5.25	4.67
Machinery repairs, supplies	19.84	14.83	13.61	14.03		14.34	18.13	12.53
Machinery hire	06.6	5.98	5.26	6.03		2.90	8 22	3.6%
Fuel and oil	7.80	7.78	8.05	7.32		7.69	8.72	6.9
Machinery depreciation	23.57	24.95	27.12	24.87		25.47	30.06	22.33
Power and equipment total	70.36	58.63	58.12	55.57		57.68	70.38	50.11
Drying and storage	8.86	7.56	9.05	7.86		8.10	7.83	6.83
Building repair	2.79	1.80	1.66	1,30		1.61	2.30	1.31
Building depreciation	8.45	4.44	3.93	3.68		4.12	6.18	2.50
Building total	20.10	13.80	14.63	12.84	-	13.83	16.31	10.6
Labor, unpaid	70.00	33.43	21.36	15.92		24.82	37.00	28.40
Labor, hired	4.10	3.05	5.91	6.48		5.06	5.32	2.3
Labor total	74.10	36.47	27.28	22.40		29.88	42.32	30.74
Value of feed fed	0.04	90.0	0.16	0.21		0.14	0.10	0.0
Capital purchases	28.07	31.38	33.03	30.87		31.57	34.16	26.0
Operator interest paid	15.40	16.07	16.92	16.34		16.38	17.44	14.26
Crop returns	327.12	328.98	336.80	323.34		329.02	281.87	366.92
Livestock return above feed	0.28	(0.01)	0.05	0.31		0.13	(0.01)	00.00
Value of farm production	334.46	336.07	343.17	329.48		335.59	289.54	372.7(
Total nonfeed cost	378.36	310.85	307.29	291.22		304.47	341.45	282.51
Management returns	(42.25)	27.09	37.81	39.77		32.87	(50,35)	91.15
Farm investment								
Livestock inventory	237	81	652	2,186		620	125	0
Grann Inventory	04'0'	602,001	101,004	200,002		150,001	02,100	142,559
moobjaces and suite	40.402	DE 444	56 A72	04 000		40 704	30000	OF 70
buildings and fence	7,979	14,983	22,774	34,926		20,045	16,840	12.117
soil fertility	56	29	186	54		8	106	. 22
Value of land (current)	489,333	1,046,801	1,690,143	2,778,482		1,482,167	958,923	1,206,820
Total farm investment	562,551	1,195,649	1,958,116	3,182,572		1,701,338	1,088,006	1,387,06
Total investment per acre	2,066	2,033	2,023	1,895		1,981	1,965	2,053
Machinery invest, per till, acre	41	9	79	26		40	/9	ñ
Com and com siloge	47.0	47.0	a 7.V	101		707	E0 2	43
South and coll shage	20.00	2	2 4	1.00		1 0	2000	2 4
Wheat	2.5	1.7	5.4	17		2 00	0.00	į ·
Other small grain	0.2	0.1	0.1	0.1		0.1	0.1	0.0
Diverted acres	5.3	5.9	5.7	6.1		5.9	7.1	5.5
All hay and pasture	1.1	0.5	9.0	9.0		9.0	9.0	0.0
Crop yields, bushels per acre								
Com	123	129	130	128		129	113	141
Soybeans	45	54	46	45		45	45	48
Wheet	5	47	44	46		VV	42	2

Table 21. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois

Range in size (total acres) Management returns Number of farms Total acres in farm Acres of tillable land Soil rating on tillable land Total months alabor Months of hired labor	60-259	260-499	200 200	200		L	1 A A	- 4 1 - L
Management returns Number of farms Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor			2005-199	Over 799	Your Farm	All Farms	Months	Months of Labor
Total acres in farm Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	13	35	37	98		115	21-27	31-39
Acres of tillable land Soil rating on tillable land Total months labor Months of hired labor	188	381	630	1 130		635	644	847
Soil rating on tillable land Total months labor Months of hired labor	88	388	805	1,051		299	298	792
Total months labor Months of hired labor	93	91	91	06		91	8	91
Months of hired labor	5.5	18.5	27.2	42.5		27.1	24.1	36.1
Door produced hundrodusiah	۲. ۵.		12.7	25.5		925	2 6	120.7
Pork produced, hundredweight	2,932	4,158	6,957	9,849		6,405	4,710	10,673
Dairy cows, number	0	_	0	0		0	V-0	0
Crop returns	55 176	121 554	200 002	354 704		203 326	191 037	278 543
Livestock returns above feed	52,955	81,955	132,154	201,081		125,904	88,354	239,755
Custom work	229	1,181	549	5,271		1,937	2,626	3,529
Other farm receipts	257	952	4,538	5,268		3,18/	4,634	2,499
Value of farm production	108,916	205,643	347,234	566,325		334,355	286,652	524,327
Contact Special Contact Contac	40000	207 506	12012	76 700		44.012	A3 A46	60 202
Power and equipment	23,633	37,079	61,667	104,197		60,979	56,637	84,731
Building and fence	10,270	12,049	24,367	43,193		23,935	21,101	41,132
Labor	21,937	29,057	43,998	968'08		46,582	38,279	81,300
Livestock services and supplies	4,622	11,530	16,184	26,294		16,098	12,302	30,096
Taxes	4,864	8,180	15,779	23,096		14,141	13,302	20,800
Insurance and miscellaneous	3,944	5,513	11,689	18,427		10,691	9,508	13,264
Interest on nonland capital	9,242	15,611	27,243	53,214		28,443	23,386	47,104
Land charge or net rent	18,788	36,753	60,015	106,387	Visitation of the last of the	60,372	60,642	76,540
Total nonfeed cost	110,133	183,367	304,853	532,501		305,254	2/8,602	455,269
Monacoment returns	(681)	92 588	CZ8 CV	22 882		20 430	8 323	60 220
Farm production per \$1.00	(100)	2001	12,012	700,00		201	2000	200
of nonfeed costs	0.99	1.12	1.14	1.06		1.10	1.03	1.15
Farm production per man	90,137	133,638	153,055	159,753		147,969	142,708	1/4,361
Financial summary								
Cash operating income	174,318	281,448	472,365	767,339		457,517	380,353	689,218
Inventory change	4,500 (CON 17)	14,403	745 546)	32,733		(42,205)	(16,934)	145 340
Form products used	184	(0,510)	744	1344		797	776	1 111
l ess purchased feed	57.298	67.773	109.177	158,699		103.630	72.422	160,598
Less purchased livestock	7,147	16,782	25,277	54,289		28,210	22,761	29,980
Adjusted gross farm income	108,916	205,643	347,247	566,348		334,365	286,652	524,327
Cash operating expense	50,306	92,410	160,816	294,593		162,403	141,812	253,381
Prepaid expense (-if increased)	(8/7)	(1,321)	(1,342)	(8,058)		(3,398)	(1,328)	(5,830)
Accis, payable (+II increased)	(213)	197	311	(1,102)		(3/5)	238,0	738
Total operating expense	48.365	64 304	159.635	284 918		158.942	140.073	248.699
Income before depreciation	60,551	114,341	187,613	281,430		175,423	146,579	275,628
Less depreciation	15,807	19,811	35,243	61,201		35,121	31,840	58,738
Capital account adjustment	535	312	491	28		329	274	171
Net farm income *	45,279	94,842	152,861	220,287		140,631	115,013	217,061
(operator's share) Labor & mgt, income per operator	17,248	40,309	60,424	44,440		45,374	29,680	81,867
Rate eamed on investment, %	5.03	7.29	2.66	6.32		6.88	5.57	٦-١

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 86 to 100 are those with nearly level, well-drained prairie soils.

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

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Table 21a.	
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Hange in size (total acres)	60-228	260-499	200-199	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns							21-27	31-39
Number of farms	13	35	37	30		115	25	14
Some costs and returns per tillable acre	1_							
Soil fertility		27.07	27.39	27.82		27.43	26.25	25.75
Pesticides	27.62	28.00	27.01	26.88		27.15	27.84	30.03
Seed and other crop	19.03	20.99	18.55	18.40		18.95	18.53	20.35
Crop total	71.14	26.06	72.95	73.10		73.53	72.62	76.13
Light vehicle and utilities	27.23	16.49	16.74	15.68		16.56	13.29	16.33
Machinery repairs, supplies	30.06	23.60	26.80	26.26		26.07	26.14	26.25
Machinery hire	6.72	10.86	8.30	9.74		9.38	8.65	10.20
Fuel and oil	16.47	13.52	13.28	12.97		13.29	12.44	13.71
Machinery depreciation	50.53	37.74	37.32	34.53		36.57	34.15	40.48
Power and equipment total	131.01	102.20	102.45	99.18		101.88	94.67	106.97
Drying and storage	12.59	80.4	8.37	7.55		8.10	8.97	8.19
Building repair	62.7	8.16	10.88	48.60		9.78	7.23	10.07
Building depreciation	37.10	10.8/	21.23	23.72		22.11	19.08	33.67
Bullaing total	90.00	23.21	24.04	41.11		39.88	35.27	50.00
labor hired	22.40	25.27	35.40	51.51		40.30	25.12	72.34
abor total	12161	80.00	73.00	27.00	-	77 83	62.00	100 64
Value of feed fed	413.13	300.65	292.89	245.80		276.85	224.60	320.06
Capital purchases	57.61	52.40	53.18	88.25		69.24	48.26	112.64
Operator interest paid	38.51	31.25	29.68	35.68		33.01	35.29	32.49
Crop returns	305.88	335.04	348.85	337.62		339.70	319.33	351.66
Livestock return above feed	293.57	225.90	219.54	191.40		210.35	147.69	302.69
Value of farm production	603.80	566.82	5/6.85	539.05		558.61	479.16	661.97
Monogomont refirms	(2.78)	60.00	74.22	30.00		40 47	13.04	87 A0
Farm investment	(0110)	244				100		
Livestock inventory	47,530	70,389	121,343	222,081		123,771	95,908	214,662
Grain inventory Remaining cost in	106,44	84,058	138,532	223,122		133,436	210,121	180,970
machinery and auto	12,608	30,957	47,062	108,737		54,355	40,639	97,950
buildings and fence	20,960	26,377	57,271	143,618		66,289	52,853	125,438
soil fertility	0 0	69	0	266		06 2	136	432
Value of land (current)	417,522	4 000 505	1,333,664	2,364,149		1,341,596	1,347,606	1,700,897
Total investment per acre	2,25,25	000,020,1	2,697	278,100,5		2,710	2,576	2,739
Machinery invest, per till, acre	22	85	78	103		9.6	89	124
Percent tillable land in								
Com and com silage	58.8	51.8	54.1	52.9		53.3	54.2	54.2
Soybeans	28.5	37.7	36.2	34.9		35.6	33.3	35.6
Wheat	0.	o. <u>←</u>	4.4	1.7		9:	2.8	-
Other small grain	S. C.	- !	4.0	0.1		0.5	0.0	0.3
Diverted acres	5.3	7.4	5.3	5.7		4. r	2.0	L.C. 7
All hay and pasture	8.	2.1	6.0	3.5		1.5	2.6	7.2
Com	124	133	121	130		122	124	138
Sowbeans	46	300	\$ 8 P	40		38	47	88
COADO	2							

Table 22. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Northern and Central Illinois

Range in size (total acres) 60-259 260-49	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns							21-27	31-39
Number of farms	37	74	89	48		227	95	20
Total acres in farm Acres of tillable land Soil rating on tillable land	181 162 74	380 338 75	638 566 75	1,241 1,054 75		607 529 75	667 576 74	827 709 76
Total months labora	17.4	17.3	24.2	0.06		24.2	24.5	34.7
Beef produced, hundredweight Pork produced, hundredweight	8. 8. 8. 8. 8. 8.	3.186	5.222 5.210	576 576 8.782		5.024	388 388 4.808	223 8.252
Dairy cows, number Dollar returns per farm	-	0	0	0		0	0	0
Crop returns Livestock returns above feed	49,158	97,603	175,081	351,695		166,645	171,660	239,454
Custom work	645	1,209	1,884	4,211		1,954	2,186	4,445
Other farm receipts	132 441	155 736	2,350	534 011		2,646	1,603	3,606
Dollar costs per farm	102,171	2000	210,12	10000		2019	200,000	416,100
Crop expenses	12,749	24,083	41,764	78,067		38,947	43,069	48,830
Building and fence	12,093	11,466	18,554	38,194		19,343	21,212	25,495
Labor	28,373	26,810	40,834	79,134		42,330	39,802	56,422
Livestock services and supplies	10,465	6,474	11,222	18,648		11,121	12,712	15,679
Insurance and miscellaneous	5.537	4.920	9,011	17.740		8,957	8.642	14,459
Interest on nonland capital	12,749	13,746	23,486	47,042		23,542	23,610	33,917
Land charge or net rent	13,371	27,817	47,059	90,542		44,490	46,511	62,735
Capital account adjustment	128,504	157,643	1,623	1 076		1020	349	247,852
Management returns	4.017	(1.055)	19,195	45,925		15.771	23	66,984
Farm production per \$1.00	. 1	000	1	. 1				
of nonleed costs Farm production per man	91,155	108,025	135,586	160,028		132,499	128,206	142,651
Financial summary								
Cash operating income	216,642	230,029	391,076	694,193		374,239	375,125	531,516
Inventory change Accts, receivable (net change)	(3,083)	(7,821)	(11 124)	37,629		(10,099)	(10,874)	(9.679)
Farm products used	281	347	514	947		513	452	959
Less purchased feed	74,267	53,006	92,495	138,014		86,276	87,230	130,516
Less purchased livestock	15,752	17,630	35,972	43,178		28,221	27,486	27,362
Cash operating expense	132,452	70,037	137 745	276,620		136,660	138 375	184 620
Prepaid expense (-if increased)	(20)	(2,111)	(1,290)	(6,745)		(2,504)	(1,924)	(3,749)
Accts. payable (+if Increased)	. 25	(284)	(491)	325		(167)	66	(224)
Farm-produced inputs	99	06	172	349		165	144	392
Income before depreciation	65.486	79.562	137.614	263.458		133.543	124,996	231.698
Less depreciation	16,458	17,609	27,557	59,323		29,222	31,853	39,981
Capital account adjustment	180	851	1,623	1,076		1,020	349	2,201
Net tarm income "	49,208	62,804	111,680	205,210		105,341	37,492	193,918
Labor & mgt. income per operator	22,534	16,937	34,842	52,589		30,752	17,628	72,709
Hate earlied on mivestment, %	0.00	O.C. dollor Form	O.Oc	6.00 EE to BE	atom opode ore	O. 40	boot ill and	o.o.

Note: Variations in totals due to rounding to the nearest dollar. Farms with soil ratings from 56 to 85 are those with poorly drained, heavy-till, and timber soils.

Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Range in size (total acres) 60-259 260-496	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months	Months of Labor
Management returns	Î	ř	ć	4		100	21-27	31-39
Number of farms	3/	4/	8	8		177.	જ	8
Some costs and returns per tillable acre		000	77	00 40		00	000	00
Soli leruiity	30.10	20.02	4.87	34.00		29.00	80.08	44.82
resucides	07:77	10.04	40.46	70.00		14.07	10.04	22.83
seed and other crop	19.88	18.25	18.10	18.11		18.5/	1/.8/	17.54
Crop total	78.70	7.7	(3.75	9.47		73.64	74.80	68.88
Light Venicle and utilities	37.75	21.75	14.79	12.32		15.30	14.81	16.35
Machinery repairs, supplies	20.73	77.87	27.34	23.62		27.24	45.05	32.98
Machinery hire	21.15	11.53	8.18	10.99		10.71	06.6	9.25
Fuel and oil	19.94	13.08	12.35	12.70		13.03	12.00	14.64
Machinery depreciation	53.60	34.99	32.89	35.23		35.34	34.81	36.62
Power and equipment total	182.66	105.52	95,55	94.86		101.68	96.86	109.85
Drying and storage	9.76	8.06	8.31	5.80		7.27	7.33	6.65
Building repair	16.87	8.76	8.72	9.45		9.43	80.6	9.71
Building depreciation	48.08	17.14	15.73	21.03		19.87	20.43	19.60
Building total	74.71	33.95	32.76	36.25		36.57	36.84	35.96
Labor, unpaid	117.82	62.21	38.73	20.72	-	39.97	40.55	42.77
Labor, hired	57.47	17.18	33.37	54.39		40.06	28.58	36.82
Labor total	175.29	79.39	72.11	75.11		80.03	69.12	79.59
Value of feed fed	624.36	268.83	257.14	226.53		265.00	244.96	305.25
Capital purchases	131.10	49.93	59.66	62.09		63,48	64.05	48.64
Operator interest paid	47.47	32.84	35.34	29.35		32.90	31.44	52.89
Crop returns	303.70	289.02	309.17	333.79		315.07	298.11	337.76
Livestock return above feed	503.98	165.22	166.76	162.75		181.57	149.77	233.06
Value of farm production	818.22	461.16	483.40	506.82		505.34	454.46	582.18
Total nonfeed cost	794.51	466.81	452.37	464.26		477.45	455.03	490.80
Management returns	24.81	(3.13)	33.90	43.59		29.82	0.04	94.48
Farm investment								
Livestock inventory	65,715	67,617	106,365	176,469		101,931	99,473	166,715
Grain inventory	35,431	68,754	103,778	214,212		104,572	108,921	156,633
Remaining cost in						!	1	
machinery and auto	18,336	24,862	48,390	101,749		47,105	53,035	58,239
buildings and fence	40,554	24,375	50,291	121,622		55,339	51,309	69,692
soil fertility	0	120	128	299		141	232	316
Value of land (current)	297,140	618,168	1,045,762	2,012,053		988,674	1,033,584	1,394,113
Total farm investment	457,175	803,898	1,354,715	2,626,406		1,297,762	1,346,559	1,845,710
lotal investment per acre	2,524	2,118	2,122	2,11/		2,139	2,018	2,233
Machinery invest, per till, acre	113	74	82	16		88	92	82
Percent tillable land in	0	e e	i i	0		1	8	C
Com and com sliage	7.79	20.0	25.0	53.1		55.1	99.0	20.00
Soybeans	0.00	21.1	30.0	32.0		0.00	23.0	2. c
Wilbal	0 0	1.0	000	000		9.0	† L	0 0
Other small grain	Ni n	7.7	9.0	0,0		20.0	0.0	D.0.
Diversed acres	0.0	D. 7	4.0	000		4.0	20.00	Q. Q
All nay and pasture	2.6	4.	٥. ن	6.0		0.5	2.0	0.2

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Table 23. 1993 Average Return, Costs, and Financial Summary by Size and Management Returns for Southern Illinois Grain Farms

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3,177	6,124 8,877	.,	4	10,746	3,173	7,551
3,091		1	2	5,078	7,675	6,267
come 77,245			6	305,182	117,813	229,673
Cash operating expense 35,696 76,298	130,929	247,484	1	135,728	69,231	87.463
(100)			1	(5,045)	1178	(200)
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nse 35,015	12	2	3	131,547	70,058	85,379
ç	_	e	3	173,637	47,754	144,295
9,641	26,	•	60	28,003	19,541	18,499
ustment 1,060			6	1,005	177	2,021
33,649				146,639	28,390	127,817
(operator's share) 17,562 36,424		80 124,877		67,222	02,490	26,548 22,000
	95 8.61		-10	8.76	1.15	11.34

Note: Variations in totals due to rounding to the nearest dollar.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 23a. 1993 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois

		, , , ,			3	2		
Management returns							Low 25%	High 25%
Number of farms	56	201	136	136		499	20	50
Some costs and returns per tillable acre								
Soil fertility	31.73	30.50	31.45	31.25		31.14	30.52	28.44
Pesticides	21.55	22.44	23.06	23.78		23.25	20.22	24.32
Seed and other crop	14.42	16.02	16.24	16.85		16.46	16.16	15.24
Crop total	67.71	96'89	70.75	71.88		70.85	96.99	68.00
Light vehicle and utilities	6.12	5.26	3.95	3.78		4.20	5.27	5.17
Machinery repairs, supplies	20.73	18.76	17.23	16.70		17.38	18.89	19.08
Machinery hire	4.93	5.04	4.82	5.36		5.14	6.13	3.94
Fuel and oil	7.70	9.05	9.05	8.52		8.76	9.52	8.66
Machinery depreclation	30.82	28.49	24.63	24.38		25.49	34.99	24.69
Power and equipment total	70.29	66.57	29.68	58.74		60.97	74.81	61.54
Drying and storage	2.50	3.33	3.67	3.29		3.39	2.60	3.10
Building repair	4.14	2.96	2.15	1.83		2.21	3.74	2.33
Building depreciation	5.80	4.19	3.83	3.64		3.85	3.67	4.31
Building total	12.44	10.48	9.66	8.76		9.45	10.01	9.74
Labor, unpaid	71.09	35.81	22.15	14.93		22.47	39.05	31.34
Labor, hired	1.3/	5.81	8.29	11.30		60.6	7.73	9.68
Labor total	72.46	41.62	30.44	26.23		31.56	46.78	38.03
Value of feed fed	25.89	20.70	16.99	12.56		15.80	12.64	23.47
Capital purchases	54.13	35.03	30.63	35.16		35.79	35.5/	38.14
Operator interest paid	12.11	19.80	16.95	15.26		16./1	20.31	21.58
Crop returns	272.78	792.31	304.07	314.33		305.93	226.52	342.20
Livestock return above reed	8.78	22.11	4.8.47	40.7		8.41	1.24	12.93
Total porfood cost	243.30	208.00	261.73	250.18		319.72	233.11	300.93
Management retires	(15.65)	30.30	56 56	72.78		E7 EA	(57.07)	24.102
Farm investment	(anini)					10.10	(10:10)	3.00
Livestock inventory	9.513	14.629	17.193	20.561		16.678	16.791	13.824
Grain inventory	34,947	91,779	153,125	300,069		162,306	65,075	122,610
Remaining cost in								
machinery and auto	12,860	31,505	48,132	112,169		57,050	38,117	32,734
buildings and fence	8,753	9,547	12,971	28,647		15,645	11,511	8,197
Soll remility	040	24.2	282	380		128	500	69
Value of farm (current)	20,041	000,043	1,173,071	2,074,330		1,170,067	750,721	050,034
Total investment per acre	1.337	1.390	1,416	1,377		1,390	1.343	1,410
Machinery invest, per till, acre	49	288	52	65		9	75	51
Percent tillable land in								
Corn and corn silage	33.2	36.8	37.3	38.5		37.7	30.5	39.3
Soybeans	36.1	38.9	39.4	37.9		38.5	34.1	41.5
Wheat	9.7	3.0	0.50	12.7		4.0	18.7	12.7
Outer small grain	0.6	0.6	5.6	9.6			9.0	0.6
All hav and pasture	, r.	0 1	, -	- +		- 4	. A	9.0
Crop vields, bushels per acre	-	1	:	4:		2	ř	5
Com	126	127	133	131		131	103	140
Soybeans	39	40	41	42		41	33	4
Wheat	43	47	40	50		2	A2	7

Table 24. 1993 Average Return, Costs, and Financial Summary by Size and Months of Labor for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

Range in size (total acres)	60-259	260-499	500-799	Over 799	Your Farm	All Farms	Months of Labor	of Labor
Number of farms	o	98	25	83		103	21-27	31-39
Total acres in farm Acres of tillable land	165	372	629 565	1,254		699	602 512	1,056 968
Soil rating on tiliable land Total months labor	16.01	3 4	24.5	37.6		60 S	20 C	3 2
Months of hired labor Book produced hundred weight		5.4.7		19.0		9,00	in t	14.5
Pork produced, hundredweight	2,855	3,338	4,770	8,382		5,259	4,406	7,343
Dollar returns per farm	0 0					0 00	0 0	200
Crop returns Livestock returns above feed	55,297	47,068	80,176	152,553		89,619	68,786	135,395
Custom work	86	613	1,156	4,055		1,802	837	2,835
Value of farm production	94,720	150,627	232,861	507,985		280,195	213,885	445,850
Dollar costs per farm								000
Crop expenses	10,405	25,551	35,961	79,459		56.764	34,609 48,492	63,536 565
Building and fence	12,533	7,967	17,451	33,226		18,761	13,829	28,024
Labor	26,118	28,968	37,316	61,010		41,011	35,271	51,930
Livestock services and supplies	7,449	5,822	10,621	20,770		11,918	10,204	17,390
losurance and miscellaneous	2,203	5,73	7,117	14,610		8,633	7,605	13.045
Interest on nonland capital	8,576	11,980	19,613	42,319		23,256	17,303	37,028
Land charge or net rent	8,883	19,433	29,421	66,970		36,165	30,374	54,930
Total nonfeed cost	95,221	141,359	212,228	426,102		245,757	203,464	354,634
Management returns	(499)	9,614	19,033	80,927		33,864	11,987	88,144
Farm production per \$1.00	000	4 07		7		*	4	90
Farm production per man	70,067	95,636	114,036	162,201		129,263	107,710	155,941
Financial summary								
Cash operating income	155,943	214,232	321,993	650,347		375,020	293,990	541,728
Accts, receivable (net change)	0	(804)	(1,845)	(5,941)		(2,632)	(415)	(7,481)
Farm products used	279	982	1,162	2,904		1,580	1,463	3,267
Less purchased feed	59,792	63,718	86,375	157,033		98,771	81,129	127,523
Adjusted gross farm income	94.720	150.627	232,632	507.985		280.195	213.885	445.850
Cash operating expense	45,475	72,571	111,399	243,434		134,370	105,263	201,708
Accts payable (-if increased)	(1,005)	(334)	(2,597)	(13,855)		(5,2/4)	(2,1/0)	(18,941)
Farm-produced inputs	8	553	699	2.559		1.184	1.020	2,748
Total operating expense	44,557	72,718	109,492	231,735		130,130	104,033	184,198
Income before depreciation	50,163	77,909	123,369	276,249		150,064	109,852	261,652
Less depreciation	790,11	14,989	71,91/	55,948		30,90	73,582	120.67
Net farm income *	39.096	63.267	93.851	219.347		118,584	87,836	211,150
(operator's share) *	32,196	36,631	60,308	124,850		70,255	54,499	130,263
Labor & mgt, income per operator Rate eamed on investment %	17,264	28,517	29,708	81,703		44,863 8,34	30,133 6.59	101,599
Motor Voriotions in totals due to roun	ding to the need	root dollar						

Note: Variations in totals due to rounding to the nearest dollar.
Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 24a. 1993 Average Operating Costs, Investments, and Land Use by Size and Management Returns for Southern Illinois Hog Farms with Soil Ratings from 36 to 85

ומואפ ווו פודפ (וכומו מכופס)								
Number of farms	6	36	25	33		103	21-27	31-39
Some costs and retums per tillable acr	9							
Soil fertility	24.57	33.19	26.37	28.71		28.95	27.65	22.52
Pesticides	18.12	26.19	22.07	23.82		23.78	23.19	26.56
Seed and other crop	15.2/	17.15	15.18	1/./5	***************************************	17.03	16.82	16.57
Crop total	27.50	16,53	63.62	10.27		40.70	96.79	65.65
Machinery repaire supplies	47.07	30.08	15.35	23.06		13.12	10.57	11.19
Machinery hipering, supplies	21.43	3.50	3,66	6.97		5,53	08.8	9.9
Fuel and oil	23.17	14.70	13.64	12.93		13.60	14.96	12.38
Machinery depreciation	28.30	32.93	27.29	32.46		31.34	31.34	32.64
Power and equipment total	153.41	97.92	86.29	86.14		89.56	94.80	84.28
Drying and storage	06.90	3.68	3.43	4.19		3.98	3.45	4.49
Building repair	32.87	8.31	5.34	8.17		8.02	8.92	8.10
Building depreciation	58.31	11.87	22.10	17.02		17.91	14.67	16.37
Building total	98.09	23.86	30.87	29.38		29.91	27.04	28.96
labor hird	31.15	2000	20.00	28.02		24 07	13.70	32.27
abor total	204 40	86 77	66.02	23.06		65.38	68 96	53.66
Value of feed fed	588.17	297.73	233.66	212.37		239.59	250.78	202.83
Capital purchases	56.18	45.86	71.34	61.61		60.71	36.37	76.54
Operator interest paid	27.80	29.99	25.45	24.87		26.00	30.63	24.54
Crop returns	302.50	303.36	263.81	305.48		295.92	277.41	314.68
Livestock return above feed	432.76	140.98	141.84	134.92		142.86	134.48	139.91
Value of farm production	741.29	451.17	411.97	449.25		446.65	418.15	460.72
Management returns	(3.92)	28.80	33.67	71.57		53 98	23.70	91.08
Farm investment								
Livestock inventory	60,788	63,309	93,797	171,260		105,075	85,953	135,691
Grain inventory Remaining cost in	33,558	296,66	268,18	550,759		17,461	82,920	212,462
machinery and auto	10.229	21.527	37.478	100.221		49.624	32.554	85.713
buildings and fence	11,630	17,511	43,430	78,019		42,674	29,445	77,066
Soil fertility	000	16	689	00 00		25	24	000 674
Total farm investment	313.605	590,164	920,522	2.064.481		1 118 536	905,868	1 731 604
Total investment per acre	1,897	1,588	1,463	1,646		1,601	1,506	1,640
Machinery invest, per till, acre	80	49	99	88		19	64	88
Com and com silage	42.3	44.1	45.0	39.8		41.1	40.6	34.1
Soybeans	33.7	29.6	32.0	33.3		32.3	32.4	32.8
Wheat	11.7	15.9	11.0	12.3		12.7	12.8	14.9
Other small grain	0.00	0.0	0.0	0.0		0.0	0.0	0.0
All hav and pastrice	. C	0 C	S. A	4. C		ກິດ	4.0	4.6
Crop vields, bushels per acre	Ġ	ò	P	j		9	1	j
Com	120	120	109	126		121	112	121
Soybeans	42	41	9 ;	45		14,	30	48
Wheat	54	04	42	940		24	64	20

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According to the second	6	Northern Illinois	Illinois			Southern Illinois	Illinois	
Number of cows in herd	10-39	40-79	Over 79	All Farms	10-39	40-79	Over 79	All Farms
Number of farms	16	82	32	130	ເດ	24	33	62
Total acres in farm	231	371	500	386	357	335	529	9440
Soil rating on tillable land	72	72	72	72	38	61	28	8
Total months labor	15.2	21.0	32.1	23.0	28.3	21.1	33.6	28.3
Months of hired labor	4.00	4.0	6.4	7.3	14.5	6.8	15.4	12.0
Beer produced, nundredweignt Pork produced, hundredweight	392 195	178	818 259	500 200 200 200	000	102	3 -	200.4
Dairy cows, number Dollar returns per farm	28	22	101	49	33	62	112	98
Crop returns	49,843	86,181	126,127	91,541	92,861	93,320	142,495	119,456
Livestock returns above feed	45,718	67,717	135,169	81,613	59,123	81,637	131,182	106,192
Custom work Other farm receipts	1 154	1 461	526 2585	1 606	1 269	2113	2 283	2 1968
Value of farm production	96 958	156.067	264 407	175.460	154 246	177.489	276.123	228.113
Dollar costs per farm								
Crop expenses	12,204	20,910	29,272	21,897	23,742	20,575	32,201	27,018
Power and equipment	7,16/	40,318	22 144	44,499	20,332	45,930 6,245	12,231	0,024
Labor	25.815	32.712	50.151	36,156	44,104	32,634	50,500	43,069
Livestock services and supplies	8,696	15,702	32,944	19,084	9,256	11,985	23,345	17,812
laxes	3,385	5,816	8,790	6,249	3,321	2,688	4,12/	3,505
Insurance and miscellaneous Interest on nonland capital	10,490	17,549	29,851	9,009	5,090 150	14,845	26,573	20,661
Land charge or net rent	14,543	24,324	31,895	24,984	18,131	17,926	26,689	22,607
Total nonfeed cost	109,879	173,209	277,708	191,137	140,760	157,640	250,188	205,538
Capital account adjustment	86	716	165	503	0	1,040	112	462
Management returns	(12,834)	(16,425)	(13,135)	(15,173)	13,486	20,889	26,047	23,038
of nonfood coats	00 0	8	0.05	000	4 10	1 13	4 10	1 11
Farm production per man	76,577	89,249	98,729	91,477	65,451	101,041	98,616	96,644
Financial summary	130 773	100 000	247 20E	030 000	450 442	109 740	247 P70	97A 0E1
Inventory change	2745	202,034	1 679	2,000	18,028	17,664	1.510	9008
Accts, receivable (net change)	(2,087)	(5,535)	(6,373)	(5,317)	(1,623)	(349)	(1,675)	(1,158)
Farm products used	1,304	2,037	2,452	2,049	1,588	1,115	1,892	1,567
Less purchased feed	23,654	30,627	66,176	38,519	22,598	31,130	67,545	49,824
Less purchased livestock	188,11	12,999	13,279	12,869	0 0	8,200	0,480	480,0
Cash operating expense	54,637	87,340	154.828	069,070	80.062	77,832	134.861	108,366
Prepaid expense (-if increased)	181	(548)	(1,498)	(692)	3,059	1,332	E	762
Accts. payable (+if increased)	105	(106)	(114)	(82)	(125)	0	224	109
Farm-produced inputs	770	1,359	1,267	1,264	280	523	917	/38
Total operating expense	55,677	88,113	154,480	100,457	83,585	79,687	136,001	109,975
Income before depreciation Less depreciation	11,702	19,988	34.588	22,562	8.746	23,057	32.684	27.027
Capital account adjustment	86	716	165	503	0	1,040	112	462
Net farm income *	30,404	49,954	76,705	54,133	62,504	76,136	108,000	91,997
(operator's share)	18,007	19,610	37,220	23,748	35,118	53,249 38 548	63,188	37,077
Rate eamed on investment, %	2.60	3.31	4.46	3.64	7.91	90.6	8.46	8.61

Frate earmed on investment, "s. 2.50 Frate earmed on investment," s. 2.51 Frate earmed on investment, "s. 2.51 Frate earmed on investment," s. 2.51 Frate earmed on the investment and central lilinois. Note: Variations in totals due to rounding to the nearest dollar. Northern lilinois includes both northern and central lilinois. Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

		Ciciliii Illomon	202			Coddin IIII III	IIII Cos	
Number of cows in herd Number of farms	10-39 16	40-79 82	Over 79 32	All Farms 130	10-39 5	40-79 24	Over 79 33	All Farms 62
Some costs and returns per tillable acre								
Soil fertility	33.52	26.77	26.63	27.16	30.02	31.58	31.00	31.11
Pesticides	17.75	20.65	20.89	20.54	26.33	18.20	19.52	19.57
Seed and other crop	19.74	18.62	20.99	19.46	16.79	17.76	16.65	16.99
Crop total	71.01	90.99	68.51	67.16	73.14	67.54	67.17	67.67
Light vehicle and utilities	21.80	19.78	25.20	21.66	13.72	21.01	17.62	18.36
Machinery repairs, supplies	39.05	35.25	42.43	37.81	29.59	35.62	42.25	39.46
Machinery hire	24.22	12.06	15.71	14.02	4.06	11.81	11.58	11.16
Fuel and oil	16.37	16.18	17.98	16.77	10.27	17.44	17.45	16.98
Machinery depreciation	44.99	44.08	50.55	46.23	23.48	64.90	52.65	54.36
Power and equipment total	146.43	127.35	151.86	136.49	81.12	150.77	141.55	140.31
Drying and storage	5.88	7.78	7.92	7.70	3.34	0.82	2.89	2.31
Building repair	14.58	9.36	13.50	11.03	2.54	8.89	7.09	7.33
Building depreciation	23.09	19.05	30.41	22.98	3.47	10.79	15.52	13.34
Building total	43.56	36.19	51.83	41.72	9.34	20.50	25.51	22.97
Labor, unpaid	108.25	27.66	62.89	75.85	96'99	73.89	59.73	64.39
Labor, hired	41.95	25.66	51.49	35.05	68.91	33.24	45.60	43.48
Labor total	150.20	103.32	117.38	110.90	135.87	107.13	105.34	107.87
Value of feed fed	329.07	279.49	350.42	305.59	149.21	251.79	288.77	268.70
Capital purchases	72.66	53.59	57.18	55.99	31.78	70.86	61.69	62.43
Operator interest paid	39.55	37.87	38.08	38.05	21.34	33.79	36.51	34.71
Crop returns	289.99	272.21	295.21	280.78	286.08	306.34	297.22	299.18
Livestock return above feed	266.00	213.89	316.37	250.33	182.14	267.99	273.62	265.96
Value of farm production	564.12	492.95	618.86	538.18	475.19	582.65	575.95	571.32
Total nonfeed cost	639.30	547.09	649.99	586.27	433.64	517.49	521.85	514.78
Management returns	(74.68)	(51.88)	(30.74)	(46.54)	41.55	68.57	54.33	57,70
Farm investment								
Livestock inventory	57,726	91,480	151,590	102,122	36,025	81,574	163,341	121,422
Grain Inventory Remaining cost in	32,605	26,382	89,800	889,10	52,769	51,488	86,533	70,244
machinery and auto	15.960	35.988	64 857	40 629	16.873	41.500	55 906	47 183
buildings and fence	24,280	45,057	74,163	49,664	6,920	17,847	39,570	28,528
soil fertility	0	56	170	28	0	151	0	25
Value of land (current)	323,180	540,539	708,769	555,197	402,920	398,357	593,088	502,372
Total farm investment	453,751	769,483	1,089,347	638'608	515,507	590,918	938,437	769,806
Total investment per acre	1,963	2,073	2,178	2,099	44,	1,763	1,772	1,748
Machinery invest, per till, acre	වර	114	152	125	25	136	117	118
Percent tillable land in	1	6	2	2	į	0	1	i
Compage	7.00	25.0	51.T	رن د. ره	47.4	8. 50 8. 50 8. 50	37.0	37.
Soybearis	9 0) () ()	0.0	000	50.0	1.02	6.73	45.7
Other small grain	2,10	. 4 0 0	0.4	0.0	2.0	7.0	200	0.0
Diverted acres	4.3	o er	0 F	0.4	9 6	0	0 0	40
All hav and pasture	28.2	25.9	26.5	27.1	12.8	25.9	2010	220
Crop ylelds, bushels per acre								
Com	107	100	111	104	109	115	118	116
Soybeans	4	88	45	\$	41	42	39	4
			-					

Area of state			Northern Illinois			Months	Months of Labor	Southern
Range in size (total acres) Number of farms	180-339 12	340-799	Over 799 29	All Farms 83	Your Farm	21-27	31-39	Illinois 16
Total acres in farm	289	209	1,166	707		862	1,151	674
Acres of tillable land	266	439	1,087	640		814	1,000	200
Soil rating on tillable land	18	200	200	5 6		20.0	8 2	5,0
Norths of hiselisher	0.4.0	8.7	31.8	- C. a		0.45	35.0	א מ א מ
Reaf produced hundredwelcht	1.539	2.363	4 864	3.118		3.234	5.890	1.274
Pork produced, hundredweight	199	999	1,388	849		1,236	772	762
Dairy cows, number	0	0	0	0		0	0	0
Dollar returns per farm			1				200	
Crop returns	76,426	139,919	355,091	205,920		266,250	309,744	130,633
Livestock returns above feed	21,035	50,433	92,817	60,991		67,427	83,913	15,826
Oustom Work	1 703	1,583	3,289	2,108 1 BEE		1,62/	2,817	0000
Value of farm production	99,297	193,512	453,945	270,885		336,929	402,771	149,298
Dollar costs per farm								
Crop expenses	22,284	35,632	89,817	52,634		65,320	75,171	29,883
Power and equipment	28,557	45,418	97,695	61,246		77,853	110,756	45,738
Building and fence	9,174	10,723	23,879	15,096		20,572	33,054	5,191
Labor	21,824	27,608	51,311	35,054		37,053	58,111	31,657
Livestock services and supplies	2,6/4	7,824	15,260	9,6/8		9,513	17,434	4,915
lactivates and miscellandous	2,302	9,040 R A A A	12,030	7,470		2000	12,310	5 73
Insulance and Illiscellaneous Interest on nonland capital	17,156	27.908	64.000	38.964		47.470	69.064	19,331
Land charge or net rent	24,528	38,496	96,893	56,881		73,602	83,209	23,440
Total nonfeed cost	135,053	208,500	472,162	290,004		355,435	482,046	170,330
Capital account adjustment	106	775	1,084	786		2,028	444	1,544
Management returns	(35,649)	(14,213)	(17,133)	(18,332)		(16,477)	(78,831)	(19,488)
Farm production per \$1.00	0.74	0 00	90 0	0 03		0 05	20 0	88 0
Farm production per man	85 163	130 667	171.263	146.895		165.066	135.765	84.384
Financial summary								-
Cash operating income	320,826	513,934	1,176,476	717,506		799,802	1,360,114	257,724
Inventory change	(19,027)	19,397	13,503	11,782		18,262	(150,060)	(2,367)
Accts, receivable (net change)	(7,677)	(13,328)	(27,890)	(17,599)		(22,740)	(31,8/3)	7 224
Less mirchased feed	20 828	35 257	77,019	47,763		53.712	86,400	2,60
Less purchased livestock	174,627	292,223	633,495	394,461		406,724	690,498	77,683
Adjusted gross farm income	99,297	193,512	453,945	270,885	X X	336,929	402,771	149,298
Cash operating expense	60,694	101,937	231,195	141,136		165,172	239,803	83,489
Prepaid expense (-if increased)	(2,872)	(3,694)	(4,081)	(3,711)		(3,867)	(2,1/1)	2 6
Accts, payable (+II increased) Farm-produced inputs	(308)	35	220	217		822	11	<u>8</u>
Total operating expense	57,511	97,614	229,215	137,797		163,622	236,957	84,674
Income before depreciation	41,787	95,898	224,730	133,088		173,307	165,814	64,624
Canital account adjustment	16,959	24,188	55,767	34,176		46,560 800,0	01,720	1544
Net farm income *	24.934	72.485	170.046	869'66		128,775	104,532	47,610
(operator's share) *	18,286	31,917	41,548	33,311		53,502	(14,340)	18,673
Labor & mgt. income per operator	(17,537)	4,657	6,032	1,928		5,426	(38,565)	930
Hate earned on Investment, %	0.70	p4	4.70	4.65		70.4	40.2	F.97

Rate earned on investment, % 0.76 4.19 4.73 4.29 — 4.25 Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois. Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Area of state			Northern Illinois			Months	Months of Labor	Southern
Range in size (total acres)	180-339	340-799	Over 799	All Farms	Your Farm	21-27	31-39	Illinois
Number of farms	12	42	53	83		17	7	16
Some costs and returns per tillable acre								
Soil fertility		34.43	34.70	34.81		33.76	26.27	27.06
Pesticides	26.75	26.34	27.34	26.96		27.54	56.68	18.93
Seed and other crop	18.79	20.48	20.61	20.45		18.95	22.23	13.81
Crop total	83.69	81.25	82.64	82.22		80.24	75.18	59.80
Light vehicle and utilities	10.61	10.11	7.02	8.31		7.19	7.67	9.05
Machinery repairs, supplies	25.14	28.12	24.08	25.54		22.18	32.41	32.82
Machinery hire	13.37	8.84	5.70	7.25		10.12	8.16	2.71
Fuel and oil	13.02	12.56	13.14	12.93		12.24	15.61	13.81
Machinery depreciation	45.11	43.93	39.95	41.64		43.90	46.92	33.17
Power and equipment total	107.25	103.56	89.89	95.68		95.64	110.77	91.53
Drying and storage	3.84	5.58	5.79	5.60		5.74	6.70	1.86
Building repair	12.03	7.65	4.82	6.23		6.24	11.54	4.56
Building depreciation	18.59	11.22	11.36	11.75		13.29	14.82	3.97
Building total	34.46	24.45	21.97	23.58		25.27	33.06	10.39
Labor, unpaid	70.99	46.26	24.19	34.65		29.70	31.05	48.76
Labor, hired	10.98	16.69	23.03	20.11		15.81	27.06	14.60
Labor total	81.97	62.95	47.21	54.76		45.52	58.12	63.35
Value of feed fed	254.90	262.19	227.52	241.18		200.42	275.97	185.10
Capital purchases	47.13	65.62	50.30	55.42		58.09	49.79	45.66
Operator interest paid	41.66	39.52	37.71	38.58		43.13	44.01	24.27
Crop returns	287.05	319.05	326.72	321.68		327.06	309.79	261.43
Livestock return above feed	79.00	115.00	85.40	95.28		82.83	83.93	31.67
Value of farm production	372.95	441.26	417.68	423.16		413.89	402.83	298.78
Total nonfeed cost	507.24	475.43	434.44	453.03		436.62	482.11	340.87
Management returns	(133.90)	(32.41)	(15.77)	(28.64)		(20.24)	(78.84)	(39.00)
Farm investment								
Livestock inventory	120,730	226,981	447,773	288,763		332,178	491,694	154,356
Grain Inventory Remaining cost in	000,80	32,430	240,303	140,000		700'461	20,000	72,430
machinery and auto	27,465	34,437	120,579	63,527		91,279	129,378	28,866
buildings and fence	26,684	35,544	76,521	48,580		60,365	119,660	11,117
Soil fertility	0 0 272	50	0 152 100	1 264 046		1 625 605	1 840 000	520 887
Total farm investment	789,595	1.244.987	3.038.449	1.805.778		2.314.307	2.783.810	787,682
Total investment per acre	2.730	2.446	2.605	2,555		2.685	2,420	1,168
Machinery invest, per till, acre	103	79	111	66		112	129	. 28
Percent tillable land in								
Com and com silage	68.2	65.2	65.1	65.3		58.5	72.2	36.4
Soybeans	18.1		19.6	18.4		26.9	10.7	23.3
Other small grain	9.0	5.4		000		900	3.0	
Diverted acres	ຸດ	7.1	7.7	7.4		2.0	11.5	7.9
All hay and pasture	7.3	0.6	4.6	6.3		4.1	4.5	21.8
Crop yields, bushels per acre								
Com	124	122	124	123		128	111	10
Soybeans	46	46	84 3	84 :		49	84 ;	37
(A/Pooe		200	- V	, V			74	

Table 27. 1993 Average Return, Costs, and Financial Summary by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than 10 Months of Jahor

	10121011	Northern 50-85	Molulon	Northern 86-100	LIVESTOCK	COULIE	Southern 36-85	LIVESTOCK
Range in size (total acres)	Grain <260	Grain >260	Grain <260	Grain >260	All Farms	Grain<260	Grain>260	All Farms
Number of farms	40	55	55	59	11	22	37	5
Total acres in farm	180	452	181	394	186	189	472	273
Acres of tillable land	156	416	166	362	159	149	389	194
Soil rating on tillable land	75	1	93	92	82	28	8	53
Total months labor	5,4	6.5	4.9	6.2	6.4	4.6	6.1	6.1
Months of hired labor	0.2	0.5	0.1	0.5	0.4	0.1	0.2	0.1
Beef produced, hundredweight	22	23	4	14	107	7	72	143
Pork produced, hundredweight	31	89	21	ഹ	626	9	88	357
Dairy cows, number	0	0	0	0	0	0	0	0
Dollar returns per farm								
Crop returns	44,703	125,284	57,212	127,099	41,126	42,607	104,735	25,759
Livestock returns above feed	842	1,286	474	111	14,201	253	1,357	8/9'6
Custom work	569	1,259	250	1,312	0	228	964	386
Other farm receipts	737	1,094	1,047	266	395	282	1,036	1,381
Value of farm production	46,551	128,923	59,252	129,519	55,722	43,370	108,093	37,204
Dollar costs per farm								
Crop expenses	11,033	30,949	12,825	28,609	12,716	12,602	26,219	6,509
Power and equipment	12,567	23,263	11,817	22,348	15,824	8,895	25,514	10,579
Building and fence	3,812	6,731	4,312	5,793	6,601	1,536	3,496	2,075
Labor	8,362	10,243	1.77.7	689'6	10,115	7,146	9,544	9,627
Livestock services and supplies	176	414	93	143	2,660	75	415	998
Taxes	3,199	6,954	3,973	7,772	3,350	1,606	3,664	1,038
Insurance and miscellaneous	2,249	4,694	2,893	3,835	2,785	28C, L	3,405	1,/85
Interest on nonland capital	12,677	35,380	3,652	1,431	0,452	0,417	24,322	3,85/
Total postered cost	10,00	425 700	226,11	400 047	375 37	A4 07A	400 505	40 430
Conital account adjustment	107,86	141	03,503	2 380	13,61	10	102,363	2,067
Capital account adjusting it	(44 700)	AACC	(F F F O T	2,000	(40.406)	14 6021	2000	2,307
Management returns	(07/11)	3,244	(190'c)	3,052	(13,420)	(1,003)	0,240	(0,940)
of nonfeed costs	0.79	1 00	0 01	1 05	0.74	960	1 05	0.76
Farm production per man	104,025	238,614	143,774	251,715	103,742	114,041	212,830	72,949
Financial summary								
Cash operating income	49,466	132,961	60,782	128,511	81,633	40,955	112,165	48,139
Inventory change	2,139	9,239	2,404	9,664	2,635	3,972	913	4,755
Accts, receivable (net change)	(3,240)	(8,229)	(3,552)	(7,985)	(4,333)	(919)	(2,231)	2,0
rarm products used	200	233	200	180	47 4 450	765	200	14 007
Less purchased leed	-, 884	2.811	156	469	7.527	235	2.279	4,033
Adjusted gross farm income	46,551	128,923	59,252	129,520	55,722	43,370	107,914	37,204
Cash operating expense	27,232	63,409	31,617	60,106	39,647	23,589	52,264	21,046
Prepaid expense (-if increased)	(301)	(1,866)	(83)	(1,292)	(1,275)	(17)	(280)	0
Accts, payable (+if increased)	(38)	168	(283)	(42)	(10)	(57)	314	0
Farm-produced inputs	0	103	67	0/1		3	412	0
lotal operating expense	26,891	67,8/3	31,278	20,940	38,360	19 951	55,409 505,505	16 158
l ess depreciation	6.355	11 951	4 823	10,200	6 169	2,967	10.597	1 984
Capital account adjustment	924	111	423	2,380	127	0	733	2,967
Net farm income *	14,229	55,211	23,574	62,661	11,320	16,984	45,641	17,141
(operator's share)	2,193	18,131	9,872	22,977	(1,206)	10,581	17,927	8,684
Labor & mgt. income per operator	(3,811)	12,525	2,001	17,960	(10,047)	484.7 484.2	15,265	234
Note: Variations in totals due to rounding to the ne	sed of the pes	roet dollar Nort	hom Illinois inclu	dee both northern	v and central Illin	rie	2010	

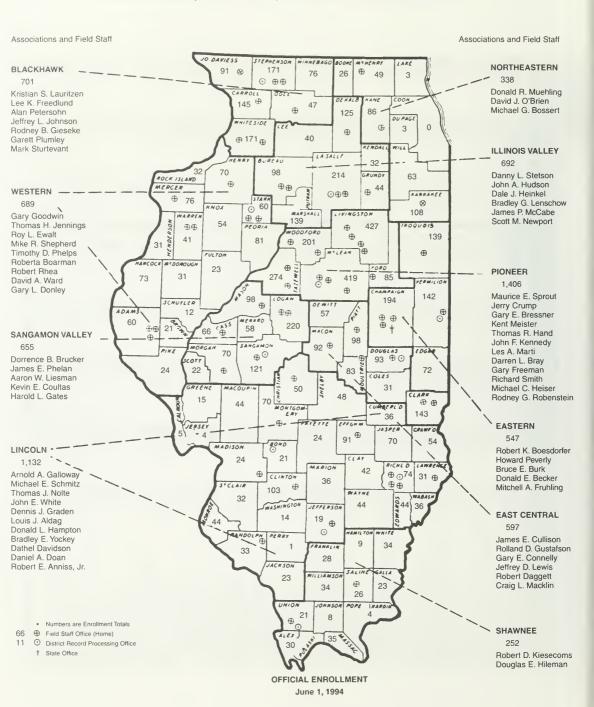
Note: Variations in totals due to rounding to the nearest dollar. Northern Illinois includes both northern and central Illinois.
* Interest expense deducted from operator's share only. Shown in parentheses because it pertains to operator's net farm income only.

Table 27a. 1993 Operating Costs, Investments, and Land Use by Size, Type, and Soil Rating for Part-time Illinois Farms that Use Less than 10 Months of Labor

			I PUT I PUT I	Solution of the solution of th	CARRICON	cs-os meninos	n 30-85	LVestock
Range in size (total acres) Number of farms	Grain <260 40	Grain >260 55	Grain <260 55	Grain >260 59	All Farms	Grain<260 22	Grain>260 37	Ali Farms
Some costs and returns per tillable acre								
Soil fertility	29.33	31.10	59.09	35.63	37.20	31.90	30.81	13.96
Pesticides	23.87	25.44	28.79	25.53	22.14	30.67	19.77	10.76
Seed and other crop	17.54	17.81	19.31	17.83	20.73	22.11	16.76	8.86
Crop total	70.75	74.34	77.19	78.99	90.08	84.68	67.34	33.59
Light vehicle and utilities	10.65	4.97	8.55	4.96	17.47	11.42	5.81	15.33
Machinery repairs, supplies	18.20	13.92	15.45	13.28	31.54	12.59	19.45	20.42
Machinery hire	14.39	5.97	17.47	13.94	15.80	13.29	7.09	3.39
Fuel and oil	7.84	7.28	7.63	6.35	12.98	90.9	8.76	8.65
Machinery depreciation	29.50	23.73	22.03	23.17	21.85	16.41	24.41	6.79
Power and equipment total	80.58	55,88	71.13	61.70	99.63	28.77	65.53	54.59
Drying and storage	8.45	9.56	13.75	9.16	13.36	2.59	3.82	0.12
Building repair	4.74	1.66	5.20	1.57	11.21	4.20	2.36	7.15
Building depreciation	11.25	4.95	7.00	5.27	17.00	3.53	2.80	3.44
Building total	24.44	16.17	25.95	15.99	41.56	10.32	8.98	10.71
Labor, unpaid	52.26	22.64	45.67	24.71	59.95	47.63	23.72	48.76
Labor, hired	1.36	1.97	1.13	2.04	3.74	0.39	0.79	0.91
Labor total	53.62	24.60	46.81	26.75	63.69	48.02	24.51	49.68
Value of feed fed	11.55	7.11	4.28	3.17	206.35	3.05	11.96	109.08
Capital purchases	39.50	26.96	19.07	32.74	29.23	27.01	29.57	22.13
Operator interest paid	23.13	16.01	20.17	15.32	41.88	9.34	17.22	25.38
Crop returns	286.65	300.94	344.35	350.90	258.95	286.30	269.00	132.91
Livestock return above feed	5.40	3.09	2.85	0.31	89.45	1.70	3.49	49.94
Value of farm production	298.50	309.68	356.63	357.59	320.82	291.43	277.62	191.97
Total nonfeed cost	379.62	302.16	392.80	339.17	473.98	302.21	263.48	253.45
Management returns	(75.19)	7.79	(33.63)	24.99	(122.32)	(10.78)	16,03	(46.17)
Farm investment								
Livestock inventory	4,197	4,573	819	2,888	32,988	1,019	8,032	30,631
Grain inventory Remaining cost in	721,62	089'07	35,329	80,140	30,455	20,410	54,857	0/5,01
machinery and auto	11.720	16,914	5,259	16.429	8,061	7,540	20.334	4.391
buildings and fence	13,104	9,631	10,860	11,184	13,989	3,219	5,044	3,771
soil fertility	9	700.000	500	162	500 500	0	0.5	0
Value of land (current)	303,939	786,233	398,258	827,262	328,299	202,331	533,4/3	284,059
Total investment per pers	20,030	1 064	20,005	000,000	9000	24,020	4 240	224,255
Machinery investment per till acre	27.75	1,00	25,7	2,573	2,620	1,5	015,	7,220
Percent tillable land in	2	F	20	}	5	5	Ž	3
Corn and com silage	49.7	47.9	47.3	49.3	56.0	39.0	34.5	22.4
Soybeans	35.9	41.8	46.0	42.2	22.0	43.3	43.0	17.3
Wheat	3.5	2.2	0.0	0.0	3.5	11.7	12.7	4.5
Other small grain		 	0.4	0.7	o 0	0.0	0.0	0.00
DIVerted acres	0.0		4. C	4, C	7.0.7	4.0	c	36.0
Crop violds bushols por sors)	0.0	0.6	0.0	0.	2.3	7.7	7.01
Com	118	121	138	141	102	134	117	110
Soybeans	4	54	47	48	41	36	37	32
Wheat	40	48	20	46	33	20	48	28

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ASSOCIATIONS, FIELD STAFF, AND COOPERATORS ENROLLED



RETIREES



Robert "Bob" Rodgers

This Macon County native attended Millikin University in Decatur for 2 years before enrolling at Iowa State University. He graduated in 1950 with a B.S. in agriculture, farmed in partnership with his father for 2 years, and in 1953 earned an M.S. in agricultural economics from the University of Illinois at Urbana-Champaign. During his graduate study he was

employed by the U.S. Department of Agriculture as an account book auditor and a graduate research assistant.

After completing his graduate degree, Rodgers managed a Piatt and Champaign County farming operation that grew to 1,020 acres in 8 years. In 1961 he was employed by the Bloomington Farm Management Service as a farm manager.

In September of 1963, after briefly serving as an insurance representative, Rodgers began work for the Lincoln FBFM Association. He completed over 30 years of service for FBFM, serving farmers in Greene, Macoupin, Jersey, and Calhoun counties. He was an early adopter of microcomputer technology to assist in the accounting and income tax processing tasks of FBFM employment.

Rodgers was a member of the Illinois and American Society of Farm Managers and Rural Appraisers for many years.



George Shafer

Born and raised in West Virginia, Shafer attended Virginia Polytechnic Institute and received a B.S. in agricultural education in 1950. After teaching vocational agriculture in high school and 2 years in the Army, he earned an M.S. in agronomy from West Virginia University in 1955 and another M.S. in agricultural economics from the University of Illinois in 1957.

Combining his training in agronomy and agricultural economics, Shafer worked for the Soil Conservation Service in Wisconsin as an agricultural economist from 1957 through 1960. In September 1960 he was employed by Sangamon Valley FBFM Association. This appointment began more than 32 years of employment with FBFM, during which he served cooperators primarily in Morgan and Scott counties and in Cass County during the early part of his career. His agronomic training was an excellent resource to assist his cooperators in analyzing the productivity of different soils and also in implementing approved soil conservation practices.

Shafer is an active church member; among his other activities, he served as director of the Jacksonville Church Softball League for over 20 years. He is also active in various hunger relief programs.



L. David Schroll

Reared on a farm in Mercer County, Schroll attended Millikin University before tranferring to the University of Illinois at Urbana-Champaign. He received a B.S. in agriculture in 1952, served 2 years in the Army, and then returned home to operate the home farm with his brother. In 1959 he moved to California for 2 years to help manage a turkey farm.

In January 1962, Schroll was employed by Western FBFM Association. He had been familiar with FBFM, as his home farm was enrolled in the program and his father was the first president of the Illinois FBFM Association. He spent 2 years with Western FBFM before accepting a position with the Illinois Power Company in Decatur. Schroll returned to FBFM employment when he began work for Pioneer FBFM in August 1966. The geographic area he serviced encompassed a large part of Tazewell County. In total he served FBFM for almost 30 years.

Schroll was known for his high degree of integrity and professionalism. He was among the first to encourage cooperators to record all of their financial data in order to receive complete and accurate financial statements. In many respects, Schroll set the standard in job performance for other field staff to follow.



Gordon Wakey

This Henry County native attended Cornell College in Iowa before transferring to the University of Illinois at Urbana-Champaign. He received a B.S. in agriculture in 1955. From 1959 to 1966, Wakey represented a feed company, worked in the farm management business, and became co-owner of a grain and feed business. He then

took a position as a farm manager with Hutchinson Farm Management Service in Geneseo.

In 1968 he began a 25-year career with the University of Illinois Cooperative Extension Service. He served as a Rock Island County assistant and associate extension adviser in agriculture from 1968 to 1976. During this time he earned an M.S. in extension education from the University of Illinois. In December 1976 he transferred to Will County as a senior extension adviser in agriculture. Wakey was employed by the Northeastern FBFM Association in October 1981 and served cooperators in Will County for 12 years before retiring. During his many years with the University of Illinois Cooperative Extension Service, he established a reputation as a very dedicated and conscientious fieldman.

Prepared by D.H. Lattz, C.E. Cagley, Clark Roberts, and Irene Chow of the Department of Agricultural Economics

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